Environment Canada Environnement Canada

Sediment Data

Atlantic Provinces

Données sur les sédiments

Provinces de l'Atlantique

1986

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1988

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DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
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PREFACE

This publication was prepared by personnel of the Sediment Survey Section, Water Survey of Canada Division, under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Dartmouth, Nova Scotia.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

Le groupe d'étude des sédiments de la Division des relevés hydrologiques du Canada, sous l'autorité du directeur des Ressources en eau du ministère de l'Environnement, à Ottawa, a préparé la présente publication.

Le chef régional de la Direction des ressources en eau, à Dartmouth (Nouvelle-Écosse), a supervisé la collecte et la compilation des données de base.

Nous remercions vivement les organismes provinciaux, ou autres, pour leur collaboration.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1986 calendar year the annual suspended sediment data and a historical data summary for the sediment survey investigations conducted in Newfoundland and Labrador, New Brunswick, Nova Scotia and Prince Edward Island by the Water Survey of Canada.

Data on the character and quantity of fluvial sediments provided by sediment survey investigations are intended for use in studies of water quality, environmental impacts, river processes and behaviour, and engineering design.

General introductory information on the sediment survey is included in this publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

Details on individual stations and related records, as well as recent data that have not yet been published, may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
4th Floor, Queen Square,
45 Alderney Drive,
Dartmouth, Nova Scotia.
B2Y 2N6

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3.

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INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les données annuelles sur les sédiments en suspension pour 1986 et le sommaire des données chronologiques sur les sédiments, à la suite des études effectuées dans les cours d'eau de Terre-Neuve et du Labrador, du Nouveau-Brunswick, de la Nouvelle-Écosse et de l'Île-du-Prince-Édouard par la Division des relevés hydrologiques du Canada.

Les données recueillies sur la nature et l'importance de la charge solide dans les cours d'eau doivent servir aux études portant sur la qualité des eaux, les incidences environnementales, les processus fluviaux, le comportement des cours d'eau et la conception de projets.

La presente publication contient des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications régulières présentant des données sur les eaux de surface.

On peut obtenir des renseignements supplémentaires sur les stations et les relevés, ainsi que des données récentes non encore publiées, en s'adressant au:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Édifice Queen Square, 4e étage
45, prom. Alderney
Dartmouth (Nouvelle-Écosse)
B2Y 2N6

ou au directeur des Ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3.

SCOPE OF PUBLICATION

Descriptive information about sediment stations is given. This refers to the Location, Latitude and Longitude, Drainage Area and whether the flow is Natural Flow or Regulated Flow (the year that regulation began is given, if known), Type of Gauge and the Total Suspended Sediment Load in Tonnes for the Period of Record is also included. International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions at the sediment station that could affect the data results are explained under "Remarks".

This publication contains data on streamflow, instantaneous suspended sediment concentration; daily mean suspended sediment concentration; daily suspended sediment loads; dissolved solids concentration; load summary; particle-size distribution of suspended sediment in percent sand, silt and clay; bed load and bed material; water temperature when samples were collected; type of sampler and the single sampling vertical location.

A historical sediment data summary includes such information as Sampled Concentration Maximum and Minimum; Suspended Sediment Load Maximum Daily and the Total for Period. The Period of Record and the Type of Operation for each year of data are also given. A Summary for the Months of record gives the Period of Record Mean, the Mean for Period of Record and the Standard Error of Mean as a percent.

HISTORY AND OBJECTIVES OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the needs of federal and provincial agencies for assessment of particular projects. Although the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

(1) Collection and provision of data related to sediment transport in Canadian rivers for applications in water resource engineering, water quality and environmental studies.

(2) Provision of information and advice related to sediment transport.

(3) Assessment, improvement and standardization of equipment and techniques used in Canada's sediment survey program.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Sediment data have been published in a variety of formats since the beginning of the Sediment Survey Program.

PORTÉE DE LA PUBLICATION

Des données descriptives sont présentées sur les stations d'étude des sédiments. Elles concernent leur emplacement, leurs latitude et longitude, leur bassin versant, la nature de débit (naturel ou régularisé, avec indication, le cas échéant, de l'année où la régularisation a commencé, si elle est connue), le type d'instrument de mesure employé et le débit total des sédiments en suspension (en tonnes) pour la période de relevé. Les stations internationales de jaugeage sont indiquées, ainsi que le nom des organismes qui fournissent les données. Des explications concernant des conditions exceptionnelles qui ont pu influer sur les résultats sont présentées dans la partie «Remarques».

Cette publication renferme des données sur le débit des cours d'eau, les concentrations instantanées de sédiments en suspension, les concentrations journalières moyennes de sédiments en suspension, les débits journaliers de sédiments en suspension, les concentrations de matières dissoutes, les débits solides totaux (résumés), la granulométrie des sédiments en suspension exprimée en pourcentage de sable, de limon et d'argile, le charriage et les matériaux du lit, la température de l'eau au moment de l'échantillonnage, le type d'échantillonneur employé et l'emplacement des verticales de prélèvement d'échantillons uniques.

Un résumé des données historiques sur les sédiments est inclus. On y trouve divers renseignements comme les concentrations maximale et minimale mesurées, le débit journalier maximal des sédiments en suspension et le total pour la période. La période de relevé et le type d'exploitation des stations sont indiqués pour chaque année. Dans un résumé pour les mois de relevé, on donne la moyenne pour chaque période et pour l'ensemble des périodes de relevé ainsi que l'erreur-type de la moyenne, en pourcentage.

HISTORIQUE ET OBJECTIFS DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts de ces études sont de:

(1) réunir et produire des données sur les transports solides dans les cours d'eau canadiens, données dont on peut avoir besoin pour des études concernant l'environnement, la qualité des eaux et la conception de projets portant sur les ressources en eau.

(2) produire des informations concernant les transports solides.

(3) évaluer, améliorer et uniformiser le matériel et les techniques employés dans le programme d'étude des sédiments au Canada.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis le début du programme d'étude des sédiments, la présentation des données a varié.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Water Resources Paper series containing sediment data incorporated a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue was a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* have been published annually. The sediment data since 1978 have been presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* were published in a new format wherein Canada was divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

A new edition, *Miscellaneous Sediment Data 1966 to 1983*, was published. It contains a tabulation of locations in Canada where miscellaneous data were collected but not previously published by the Water Survey of Canada. The following data are included in this one time publication: date and time of sample collection; instantaneous discharge or daily mean discharge; sampling vertical; instantaneous concentration; dissolved solids for some samples; type of sampler used; particle size distribution of suspended sediment in percent sand, silt and clay for some depth integrated samples and/or measurements, and some point integrated measurements; particle size distribution of bed load; particle size distribution of bed material; and the water temperature at time of sampling for some samples is also given where available.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations in Canada where sediment data were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations also listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions because it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

De 1948 à 1960, on a recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenant des données sur les sédiments a paru dans la série intitulée *Water Resources Paper*; elle présentait un choix de ces données ainsi que des données recueillies en 1961 avant le 30 septembre à des stations établies pour la réalisation du programme permanent. La deuxième publication a porté sur les données recueillies dans le cadre du programme au cours des années hydrologiques 1962 et 1963. Par la suite, les données ont été publiées annuellement sous le titre *Données sur les sédiments - rivières canadiennes*. Depuis 1978, les données sont exprimées en unités du Système international (SI).

En 1984, la présentation des *Données sur les sédiments* a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

Une édition récente intitulée *Données diverses sur les sédiments, 1966 à 1983* vient de paraître. On y présente sous forme de tableau les emplacements où des données diverses non encore publiées ont été recueillies au Canada par la Division des relevés hydrologiques. Cette première édition comprend des données telles que : la date et la durée de l'échantillonnage; le débit instantané ou débit journalier moyen; la verticale d'échantillonnage; les concentrations instantanées; les concentrations de matières solides en solution pour certains échantillons; le type d'échantillonneur employé; la granulométrie des sédiments en suspension en pourcentage de sable, de limon et d'argile, dans le cas de mesures avec intégration selon la profondeur ou d'échantillons intégrés sur toute la profondeur, et dans le cas de mesures par la méthode ponctuelle; la granulométrie du charriage; la granulométrie des matériaux du lit; la température de l'eau lors du prélèvement d'échantillons, lorsque celle-ci est connue.

Un *Index de référence des données sur les sédiments* est publié. La première édition portait sur les données disponibles jusqu'en 1972. Les emplacements où des données sur les sédiments ont été recueillies au Canada par la Division des relevés hydrologiques y sont présentés sous forme de tableau. L'*Index* est subdivisé selon l'ordre alphabétique par province ou territoire, et les stations de mesure des sédiments sont classées par ordre alphabétique. À partir de 1978, les données sont exprimées en unités du Système international (SI). L'*Index* est publié tous les deux ans; l'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour effectuées depuis la dernière parution.

Une autre série de publications a porté le titre *Sommaire chronologique des données sur les sédiments de rivières canadiennes*. La première édition renfermait les données disponibles jusqu'en 1974. Cette série présentait un résumé donnant les moyennes mensuelles et annuelles historiques du débit des sédiments en suspension, les valeurs annuelles extrêmes de la concentration journalière et du débit journalier des sédiments en suspension et le débit annuel total des sédiments en suspension. À partir de 1978, les données ont été présentées en unités du Système international (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

COLLECTION AND PROCESSING OF BASIC DATA

1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain cross sections are located at traffic bridges, while others are equipped with cableways, or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.

(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.

(c) Depth-integrating suspended sediment samplers, USD-49, and USD-74, used on a reel suspension for medium and large streams whose depths are less than five metres.

(d) Point-integrating suspended sediment samplers, USP-61, USP-61-A1, USP-63, and USP-72, used for point-integrating sampling, or depth-integrating sampling if the depth is over five metres, or in a cross section with velocities up to two metres per second.

(e) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.

(f) Bed material sampler, USBM-54, used on large or deep streams or on those streams with hard-packed streambeds.

(g) Bed material sampler, USBMH-60, used on some large or deep streams or on those streams with soft-packed streambeds.

(h) Bed material sampler, USBMH-53, used on some small or shallow streams.

(i) Lane bed material sampler, a drag-type sampler used on small streams or those with soft streambeds.

2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment load measurements and conform to the accepted standards of the regular hydrometric survey.

3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment load by the

COLLECTE ET TRAITEMENT DES DONNÉES DE BASE

1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines sections sont situées sous un pont, d'autres sont accessibles par téléphérique, ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) L'échantillonneur intégrateur selon la profondeur, type simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;

(b) L'échantillonneur intégrateur selon la profondeur USDH-59, utilisé comme une ligne dans les cours d'eau petits et moyens;

(c) Les échantillonneurs intégrateurs selon la profondeur USD-49 et USD-74 fixés au bout d'une corde s'enroulant autour d'un moulinet et employés dans les cours d'eau gros ou moyens dont la profondeur est inférieure à cinq mètres;

(d) Les échantillonneurs intégrateurs USP-61, USP-61-A1, USP-63 et USP-72, employés ponctuellement ou sur toute la verticale, et utilisés lorsque la profondeur est supérieure à cinq mètres ou dans les sections transversales qui connaissent un débit qui atteint 2 m/s.

(e) Un échantillonneur automatique permettant le prélèvement en bouteilles, sans surveillance, d'échantillons uniques d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;

(f) L'échantillonneur USBM-54 employé pour le prélèvement d'échantillons des matériaux du lit dans les cours d'eau importants ou profonds ou dans les cours d'eau dont le fond est dur;

(g) L'échantillonneur USBMH-60 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau importants ou profonds, ou dans les cours d'eau dont le fond est meuble;

(h) L'échantillonneur USBMH-53 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau petits ou peu profonds;

(i) La drague employée pour le prélèvement d'échantillons des matériaux du lit dans de petits cours d'eau ou dans des cours d'eau dont le fond est meuble.

2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation de la hauteur des eaux, la mesure du débit de l'eau, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. Les mesures du débit de l'eau et du débit des sédiments se font conjointement, suivant les méthodes acceptées.

3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) La mesure périodique du débit des sédiments en suspension par la méthode d'intégration sur toute la profondeur

depth-integrating method for determining the average suspended sediment concentration in the cross section.

(b) Single suspended sediment samples at a selected vertical for determining the sediment concentration for the days when suspended sediment load measurements are not taken.

(c) Limited measurement of suspended sediment load by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross section.

(d) Sampling of bed material for determining particle-size distribution.

(e) Periodic measurement of bed load.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Load by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the suspended sediment load in the entire cross section of a stream, the average suspended sediment concentration in the cross section, and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the water surface to the streambed and could vary from streambank to streambank.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross section is divided into at least five equal-flow panels and a representative suspended sediment sample is collected from each portion. For each panel of the cross section, the suspended sediment load (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\ c$$

The suspended sediment load (R) for the cross section may be computed by adding the sediment loads for the five equal-flow panels:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

The depth-integrating method of sampling is used to measure the suspended sediment concentration. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

(b) *Single Suspended Sediment Samples at a Selected Vertical*: Single suspended sediment samples, consisting of two bottles each, are collected routinely using the depth or point-integrating samplers at a permanently fixed vertical in a cross section. During periods of very heavy sediment concentration, two or three single sediment samples may be taken per day, while during periods of low concentration, one single sediment sample may only be taken every few days. During extremely low flow periods, the sampling may be limited to one single sample in several weeks or months.

(c) *Suspended Sediment Load by Point-Integrating Method*: A limited number of suspended sediment load measurements are made by the point-integrating method. These measurements are included in the program (a) to check by comparison the "measured" sediment loads obtained by the depth-integrating method with the suspended sediment loads by the point-integrating method and (b) to obtain samples from which to determine particle-size distribution

pour la détermination de la concentration moyenne dans une section transversale;

(b) Le prélèvement d'échantillons uniques des sédiments en suspension selon une verticale choisie, afin de déterminer la concentration des sédiments les journées où le débit des sédiments en suspension n'est pas mesuré;

(c) Un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;

(d) L'échantillonnage des matériaux du lit afin d'en déterminer la granulométrie;

(e) La mesure périodique du charriage.

Voici une brève description des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer le débit des sédiments en suspension traversant toute une section transversale d'un cours d'eau, la concentration moyenne des sédiments en suspension dans la section transversale et la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente généralement avec la profondeur et qu'elle peut varier d'une rive à l'autre d'un cours d'eau.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches où le débit est égal et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\ c$$

Le débit des sédiments en suspension (R) pour la section transversale est la somme des débits des sédiments des cinq tranches:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

La méthode par intégration sur toute la profondeur est employée pour mesurer la concentration des sédiments en suspension. Elle suppose que l'échantillonneur se remplit à un rythme proportionnel au débit de l'eau et qu'en étant déplacé à une vitesse uniforme sur toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de celle-ci.

(b) *Prélèvement d'échantillons uniques de sédiments en suspension sur une verticale choisie*: De tels échantillons, constitués chacun de deux bouteilles, sont prélevés régulièrement à l'aide d'appareils intégrateurs, selon la profondeur ou ponctuels, sur une verticale permanente d'une section transversale. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon peut être prélevé à quelques jours d'intervalle lorsqu'elle est faible. Au cours des périodes où le débit est extrêmement faible, l'échantillonnage peut être limité à un échantillon toutes les quelques semaine ou tous les quelques mois.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: Un nombre limité de mesures du débit des sédiments en suspension sont faites avec cette méthode. On y a recours a) pour vérifier les valeurs du débit mesurées au moyen de la méthode précédente et b) pour obtenir des échantillons en vue de déterminer la granulométrie des sédiments en divers points de la

at different points in the cross section. The point-integrating sediment loads are computed by graphical methods.

The relationship between the suspended sediment concentration of the single vertical samples and the average concentration in the cross section determined from the suspended sediment load measurements is established for some stations. Using this relationship, the sediment concentrations of the single vertical samples are adjusted to reflect the average suspended sediment concentration in the cross section. These average sediment concentrations in the cross sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated procedures using a digitizer interfaced with a Digital minicomputer.

The daily suspended sediment loads are computed on the basis of stream discharges and the collected suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration (mg/L), by the daily mean discharge (m^3/s), and the conversion factor, 0.0864.

(d) *Bed Material Sampling*: In a cross section, bed material samples are usually taken in the same sampling verticals as the suspended sediment samples. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross section. The total number of bed material samples taken in a cross section usually varies between five and nine.

(e) *Bed Load Measurement*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Load*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario; and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) filtration method, (2) evaporation method and (3) determination of total dissolved solids by evaporation method.
(b) particle-size distribution analysis by (1) bottom withdrawal tube method, (2) sieving and (3) hydrometer method.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

section transversale. Cette méthode fait appel à des graphiques pour le calcul du débit des sédiments.

Le rapport entre la concentration des sédiments en suspension dans les échantillons prélevés sur une seule verticale et la concentration moyenne dans la section transversale, telle que déterminée à partir des mesures du débit des sédiments en suspension, est établi pour quelques stations. Il permet de corriger les concentrations mesurées à une seule verticale de manière à donner la concentration moyenne dans la section transversale. Les concentrations moyennes ainsi déterminées sont reportées sur un graphique, et une courbe lisse passant par les points marqués est tracée. Le graphique obtenu représente la concentration moyenne des sédiments en suspension pour la période de relevé. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un mini-ordinateur numérique.

Les valeurs journalières du débit des sédiments en suspension sont calculées à partir du débit du cours d'eau et des concentrations des sédiments en suspension recueillis. Elles sont exprimées en tonnes par jour. On les détermine en multipliant la concentration moyenne journalière des sédiments (mg/L) par le débit moyen journalier (m^3/s) et par un facteur de conversion approprié, 0.0864.

(d) *Échantillonnage des matériaux du lit*: Dans une section transversale, les échantillons des matériaux du lit sont ordinairement prélevés aux mêmes verticales que ceux des sédiments en suspension. Souvent, des échantillons supplémentaires sont pris près des rives, là où le niveau d'eau est extrême et à d'autres points de la section transversale. Leur nombre total pour une section donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du charriage*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.). Le choix se fondera sur la nature du régime du cours d'eau.

4. *Débit solide total*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) filtration, (2) évaporation, et (3) détermination des matières dissoutes totales par évaporation.
(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par l'emploi de tamis et (3) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à corriger les résultats pour tenir compte des matières dissoutes. La quantité de celles-ci est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

Particle-size analysis was carried out for some suspended sediment samples having gross weights in the range of 0.15 to 5 g using the Bottom Withdrawal Tube method. The particle-size distribution of the Bottom Withdrawal Tube method ranges from 0.002 to 1.000 mm. The Sieve analysis method may be used for samples with a large amount of material coarser than 0.062 mm.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)
Clay	0.000 24 - 0.004
Silt	0.004 - 0.062
Sand	0.062 - 2.0
Gravel	2.0 - 64.0

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analyzed in distilled water. Chemical dispersion is not used for native-water analysis.

6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbol (S) on the daily mean concentrations.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those records obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

Une analyse granulométrique a été effectuée pour certains échantillons de sédiments en suspension ayant un poids brut dans l'intervalle de 0.15 à 5 g par la méthode de la burette (extraction des sédiments déposés, à divers intervalles). La distribution de la taille des particules déterminée par cette méthode varie de 0.002 à 1.000 mm. La méthode de tamisage peut être employée pour les échantillons ayant une forte quantité de particules de taille supérieure à 0.062 mm.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

Classification	Taille (mm)
Argile	0.000 24 - 0.004
Limon	0.004 - 0.062
Sable	0.062 - 2.0
Gravier	2.0 - 64.0

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique avant d'être analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sédiments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée d'après la fréquence d'utilisation du symbole (S), avec les données sur la concentration journalière moyenne.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas des petits cours d'eau ou des cours d'eau à crues très rapides.

METHOD OF TABULATION OF SEDIMENT DATA

For stations where the suspended sediment load was obtained, the following data are given where available:

1. The table of *Suspended Sediment Load* includes the daily mean discharge in cubic metres per second, the daily mean concentration in milligrams per litre, and the daily suspended sediment load in tonnes per day. The total monthly discharge and total monthly sediment load are also given for each month of record.

   For stations where the sediment load in tonnes per day are produced for complete or partial years, the *Total Suspended Load* for the period is given in the descriptive information.

   For stations where only suspended sediment concentrations are obtained, the table of *Suspended Sediment Load* will not be given.

   Additional descriptive information about the sediment station is also given and will indicate the following, where applicable.

   Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

   Drainage area – refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

   Type of Flow – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

   Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

   (a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.

   (b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

   International Gauging Station – on waters adjacent to the international boundary, certain gauging stations have been

PRÉSENTATION DES TABLEAUX DE DONNÉES SUR LES SÉDIMENTS

Pour les stations de mesure du débit des sédiments en suspension, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. Le tableau concernant le *débit des sédiments en suspension* (The table of Suspended Sediment Load) donne le débit journalier moyen de l'eau, en mètres cubes par seconde, la concentration journalière moyenne, en milligrammes par litre, et le débit journalier des sédiments en suspension, en tonnes par jour. Chaque mois les données indiquent également les débits mensuels totaux de l'eau et des sédiments.

   Dans le cas des stations où le débit des sédiments, en tonnes par jour, est fourni pour une année complète ou une partie de l'année, le total pour la période est indiqué.

   Dans le cas des stations où seule la concentration des sédiments en suspension est obtenue, ce tableau est absent.

   Des renseignements descriptifs additionnels au sujet de la station sont également présentees. On peut y apporter les précisions suivantes:

   Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à une bonne distance de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

   Superficie du bassin versant (Drainage area) – Désigne la zone délimitée par une ligne de faîte de sorte que l'écoulement de surface direct provenant des précipitations est entraîné par gravité vers le cours d'eau, en amont de la station.

   Type de débit (Type of Flow) – Un débit reconnu comme naturel est indiqué. Le débit de nombreux réseaux hydrographiques est modifié par une régularisation effectuée en amont. Dans certains cas, l'importance de cette régularisation n'est pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique, ainsi que l'année où elle a débuté (si elle est connue).

   Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau ou le débit d'un cours d'eau.

   (a) *Manuel* (Manual) – Indique qu'un appareil non enregistreur est employé pour obtenir normalement une fois par jour les données sur le niveau et le débit du cours d'eau.

   (b) *Enregistreuse* (Recording) – Indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux qui est tracé sur un graphique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

   Station internationale de jaugeage (International Gauging Station) – Dans les eaux contiguës aux frontières, on a

designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Contributed Data – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

Remarks – contains a statement pertaining to the sediment sample collection.

2. The table of *Instantaneous Suspended Sediment Concentration* for depth-integrating samples includes the following: Date and Time of the sample collection; Water Temperature; Instantaneous Discharge at time of sampling, (if not available the daily mean discharge is given and indicated by a symbol); Single Sampling Vertical location; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used. The particle-size distribution of Sand, Silt and Clay, in percent is given where available.

The Single Sampling Vertical Location is defined by many symbols, which are as follows, where applicable:

DIGITS - 5, 14, 130, etc., is the distance in metres from the initial point
WERB - Water's Edge RIGHT Bank
WELB - Water's Edge LEFT Bank
1QRB - One-quarter the distance FROM the RIGHT Bank
3QRB - Three-quarters the distance FROM the RIGHT Bank
1QLB - One-quarter the distance FROM the LEFT Bank
3QLB - Three-quarters the distance FROM the LEFT Bank
MID - MID STREAM
MULT - Composite sediment measurement

For the suspended sediment measurements, the Date; Time; Water Temperature at time of sampling; Discharge computed for each sampling panel; Concentration; Sampling Vertical; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used; and the Particle-size distribution of the Sand, Silt and Clay, in percent is given where available.

3. The table of *Point Integrating Particle-size of Suspended Sediment* includes the following: Date and Time of the sample collection; Water Temperature; Panel Discharge for each sampling vertical; Sampling Vertical; Depth of Sample; Concentration of Sample in milligrams per litre; Dissolved Solids, in milligrams per litre, and the Particle-size distribution in percent of the Sand, Silt and Clay are also given.

désigné certaines stations comme «internationales», et les données obtenues sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publications et dans les *United States Water Supply Papers* sont dues à des variantes dans les techniques de traitement automatique des données.

Données fournies (Contributed Data) – Lorsqu'un organisme extérieur a fourni toutes les données ou une partie des données, son nom est indiqué.

Remarques (Remarks) – Renseignements au sujet du prélèvement des échantillons de sédiments.

2. Le tableau des *concentrations instantanées de sédiments en suspension* (The table of Instantaneous Suspended Sediment Concentration) pour les échantillons obtenus par intégration selon la profondeur comprend: la date et l'heure de prélèvement; la température de l'eau; son débit instantané au moment de l'échantillonnage (s'il n'est pas connu, le débit journalier moyen, avec symbole); l'emplacement de la verticale d'échantillonnage; la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage des particules est donnée lorsqu'elle est disponible.

Le site vertical d'échantillonnage unique est défini par plusieurs symboles dont les suivants dans certains cas :

CHIFFRE - 5, 14, 130, etc., désigne la distance en mètres à partir du point initial
WERB - Bord de l'eau, rive DROITE
WELB - Bord de l'eau, rive GAUCHE
1QRB - Un quart de la distance À PARTIR de la rive DROITE
3QRB - Trois quarts de la distance À PARTIR de la rive DROITE
1QLB - Un quart de la distance À PARTIR de la rive GAUCHE
3QLB - Trois quarts de la distance À PARTIR de la rive GAUCHE
MID - MI-DÉBIT
MULT - Mesure des sédiments mixtes

Pour les mesures des sédiments en suspension, la date, l'heure, la température de l'eau au moment de l'échantillonnage, le débit calculé pour chaque tranche de la section d'échantillonnage, la concentration et la verticale d'échantillonnage, la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage des particules est donnée lorsqu'elle est disponible.

3. Le tableau de la *granulométrie des échantillons ponctuels et intégrés des sédiments en suspension* (The table of Point Integrating Particle-size of Suspended Sediment) comprend: la date et l'heure de prélèvement de l'échantillon, la température de l'eau, le débit de la tranche de la section pour chaque verticale d'échantillonnage, la verticale d'échantillonnage, la profondeur de l'échantillon, la concentration des échantillons, en milligrammes par litre, la concentration des matières dissoutes, en milligrammes par litre, et granulométrie du sable, du limon et de l'argile.

4. The table of *Bed Load Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent, for each sample of bed load collected.

5. The table of *Bed Material Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent, for each sample of bed material collected.

6. The table of *Historical Sediment Data Summary* gives the following, for the period of record, where applicable.

   (a) Record Summary
   (b) Type of Sampling
   (c) Sampled Concentration, maximum and minimum
   (d) Suspended Sediment Load, maximum daily and the total, for the period, in tonnes
   (e) Summary, including mean load, the historical mean load and the standard error of the mean in percent.

(a) The *Record Summary* gives the months of record that data are available. If the complete month is on file the symbol (C) is shown, while partial months of data are indicated by the symbol (P). Months with no data on file are indicated by (-).

(b) The *Type of Sampling* indicates the type of sampling method used to collect the sediment samples during the period of operation. If the samples were collected by manual methods this is indicated by "MANUAL." If the samples were collected by a pump sampler or some other automatic method this is indicated by "AUTO." If both manual and automatic sampling methods were used this is indicated by "DUAL."

(c) The *Sampled Concentration* gives the maximum and minimum concentration, in milligrams per litre, and the date of collection for each year of record. The extreme recorded for the period of record is indicated by an asterisk (*). If more than one maximum or minimum, of the same value, occurred during the year only the date of the first occurrence is identified by the asterisk.

(d) The *Suspended Sediment Load* gives the maximum daily load, in tonnes, and the date of occurrence. The extreme recorded is indicated by an asterisk (*). The Total for the Period gives the total load for the period or year, in tonnes. The extreme recorded is also indicated by an asterisk (*). If more than one maximum or minimum, of the same value, occurred during the year only the date of the first occurrence is identified by the asterisk. A load which has been revised since the previous publication is marked with the symbol (R) for Revision.

4. Le tableau de la *granulométrie des sédiments charriés* (The table of Bed Load Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage des particules pour chaque échantillon recueilli du charriage.

5. Le tableau de la *granulométrie des matériaux du lit* (The table of Bed Material Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage des particules pour chaque échantillon recueilli.

6. Le tableau du *sommaire chronologique des données sur les sédiments* (The table of Historical Sediment Data Summary) donne, pour la période pour laquelle les données sont disponibles, les renseignements suivants lorsque de telles données existent:

   (a) Le sommaire du relevé
   (b) Le type d'échantillonnage
   (c) Les concentrations mesurées, maximum et minimum
   (d) Le débit des sédiments en suspension, maximum quotidien et le total pour la période en tonnes
   (e) Résumé, comprend le débit moyen, le débit moyen chronologique et l'erreur type de la moyenne en pourcentage.

(a) Le *sommaire du relevé* donne les mois de relevé pour lesquels les données sont disponibles. Le symbole (C) indique que les données sont disponibles pour tout le mois. Le symbole (P) indique que ces données ne sont disponibles que pour une partie du mois. Enfin, on indique par (-) les mois qui n'ont pas de données.

(b) Le *type d'échantillonnage* indique le type de méthode d'échantillonnage que l'on utilise dans le prélèvement des échantillons de sédiments pendant la période d'exploitation. Si le prélèvement des échantillons se fait par des méthodes manuelles, on indique «MANUEL». Si le prélèvement des échantillons se fait au moyen d'échantillonneur à pompe ou par quelque autre méthode automatique, on indique «AUTO». Si on utilise à la fois des méthodes d'échantillonnage manuelles et automatiques, on indique «DOUBLE».

(c) Pour les *concentrations mesurées* (Sampled Concentration), on donne la concentration maximale et la concentration minimale, en milligrammes par litre, et leur date d'obtention pour chaque année de relevé. La valeur extrême enregistrée est indiquée par un astérisque (*). Si la valeur du maximum ou du minimum a été mesurée plus d'une fois pendant l'année, on signale, par l'astérisque, seulement la date de la première mesure.

(d) Sous le *débit des sédiments en suspension* (Suspended Sediment Load), on donne le débit journalier maximal, en tonnes, et sa date de mesure. Le débit extrême enregistré est indiqué par un astérisque (*). Le débit total pour la période ou pour l'année est indiqué. La valeur extrême est également signalée par un astérisque (*). Si la valeur du maximum ou du minimum a été mesurée plus d'une fois pendant l'année, on signale, par l'astérisque, seulement la date de la première mesure. La lettre R indique qu'une valeur du débit a été révisée depuis la dernière publication.

(e) The *Summary* gives the *Mean Load* and the *Historical Mean Load* in tonnes.

The *Standard Error of the Mean* % is calculated using the following equations:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

and

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

where SEM is the Standard Error of the Mean.

- S is the Standard Deviation of the annual mean loads.
- x is the annual Mean Load variable.
- $\bar{x}$ is the Historical Mean Load or the arithmetic mean of the annual Mean Loads.
- n is the number of years for which there is an annual Mean Load.

For stations with only instantaneous samples, this table will not include the *Suspended Sediment Load* or the statistical information in the *Summary*.

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other federal and provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the *Sediment Data Reference Index*.

MICROFICHE

Sediment data are available in metric units on microfiche, upon request. The data are stored in station number order by province. There are 270 frames per microfiche at 48X reduction; there is a visible heading showing the fiche number, type of data, province, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

(e) Le *résumé* donne le *débit moyen* et le *débit moyen chronologique*, en tonnes.

L'*erreur-type de la moyenne* % (Standard Error of the Mean), est calculée à l'aide des équations suivantes:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

et

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

où SEM est l'erreur type de la moyenne.

- S est l'écart type des débits moyens annuels.
- x est la variable du débit moyen annuel.
- $\bar{x}$ est le débit moyen chronologique ou la moyenne arithmétique des débits moyens annuels.
- n est le nombre d'années où il y a un débit moyen annuel.

Dans le cas des stations ne prélevant que des échantillons instantanés, ce tableau ne donnera pas le *débit des sédiments en suspension* ni les données statistiques du *résumé*.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données sur les sédiments, et l'assistance fournie par certains organismes a facilité les opérations d'échantillonnage des sédiments en suspension.

Dans les eaux adjacentes à la frontière internationale, les stations dépendent du Canada ou des États-Unis selon l'accord intervenu entre les deux pays, et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage» dans la présente publication.

La Division des relevés hydrologiques du Canada est redevable à plusieurs organismes fédéraux et provinciaux, dont les noms apparaissent dans le sommaire de l'année, de l'aide et de la collaboration qu'ils lui ont apportées pour l'obtention des données sur les sédiments. On trouvera également les noms des organismes qui ont fourni des données dans l'*Index de référence des données sur les sédiments*.

MICROFICHE

Les données sur les sédiments sont disponibles sur microfiche en unités métriques. Ces données sont emmagasinées par ordre de numéro de station et par province. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la province, le numéro de la première et de la dernière station, la première et la dernière année des données ainsi que le mois et l'année de création de la fiche. La dernière image donne l'index de la fiche.

DEFINITION OF TERMS

The following definitions are given to clarify the terms used in this publication:

Automatic pump sample is an individual water-sediment mixture pumped from a fixed point in a stream.

Bed load is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

Bed material is the sediment mixture of which the streambed is composed.

Daily load is the suspended sediment load expressed in tonnes for a particular day. The daily load is obtained by multiplying the daily mean sediment concentration (mg/L) by the daily mean discharge (m^3/s) and the conversion factor, 0.0864.

Daily mean concentration is a time-weighted mean value and is computed from a manually constructed concentration curve. The mean concentration value may be determined arithmetically or graphically. The arithmetic mean is obtained either by (1) selecting values from the concentration graph that represents uniform intervals of time and taking the arithmetic average or by (2) selecting values from the graph that represent unequal intervals of time and weighing these values by the time intervals represented by the concentrations. For graphical explanation refer to *Office Procedures for Sediment Data Computations* and for the automated graphical explanation refer to *Automated Hydrometric Computation Procedures*.

Depth-integrated sediment sample is a suspended sediment sample collected at a single vertical in a cross section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

Instantaneous suspended sediment sample is a sample collected at a fixed vertical in a river cross section.

Measured suspended sediment discharge is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

Particle-size analysis is the process of determining the size distribution of particles in a sediment sample.

Point-integrated sediment sample is a sample of the water-sediment mixture taken over a specified period of time at a fixed point and depth in a river cross section.

DÉFINITION DES TERMES

Les définitions suivantes sont présentées afin de faciliter la compréhension des termes utilisés dans la présente publication:

Échantillonnage automatique à l'aide d'une pompe (Automatic pump sample): Prélèvement d'un mélange de sédiments et d'eau au moyen d'une pompe fonctionnant automatiquement, en un point précis d'un cours d'eau.

Charriage (Bed load): Matières roulées ou poussées sur le fond sous l'action de l'eau, mais restant en contact presque permanent avec le fond.

Matériau du lit (Bed material): Mélange de sédiments composant le lit d'un cours d'eau.

Débit journalier des sédiments en suspension (Daily load): Débit des sédiments en suspension exprimé en tonnes par jour, pour une journée donnée. On l'obtient en multipliant la concentration journalière moyenne des sédiments (mg/L) par le débit journalier moyen de l'eau (m^3/s) et le facteur de conversion 0.0864.

Concentration journalière moyenne (Daily mean concentration): Moyenne pondérée en fonction du temps, calculée à partir d'une courbe de la concentration établie manuellement. La valeur de la concentration moyenne peut être déterminée arithmétiquement ou graphiquement. Pour la déterminer arithmétiquement, on peut, soit choisir sur la courbe des valeurs représentant des intervalles uniformes de temps et faire la moyenne arithmétique, soit choisir sur cette courbe des valeurs qui représentent des intervalles inégaux de temps et pondérer ces valeurs en fonction des intervalles de temps correspondants. En ce qui concerne les méthodes graphiques, consulter *Méthodes de bureau pour les calculs de données sur les sédiments* et, pour la méthode automatisée, *Automated Hydrometric Computation Procedures*.

Échantillon intégré sur toute la profondeur (Depth integrated sediment sample): Échantillon des sédiments en suspension prélevé sur une verticale précise d'une section transversale d'un cours d'eau à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante; il représente un échantillon moyen des matières en suspension entre la surface de l'eau et environ 9 cm du fond.

Échantillon instantané de sédiments en suspension (Instantaneous suspended sediment sample): Échantillon prélevé à une verticale précise d'une section transversale d'un cours d'eau.

Débit mesuré des sédiments en suspension (Measured suspended sediment discharge): Débit des sédiments en suspension qui peut être calculé à partir du débit du cours d'eau et de la concentration des sédiments déterminée à partir d'échantillons intégrés sur toute la profondeur.

Analyse granulométrique (Particle-size analysis): Détermination de la répartition de la taille des particules dans un échantillon de sédiments.

Échantillon ponctuel et intégré (Point-integrated sediment sample): Échantillon constitué d'un mélange d'eau et de sédiments, prélevé au cours d'une période de temps donnée en un point précis d'une section transversale d'un cours d'eau et à une profondeur donnée.

Sediment is fragmental material which has deposited, eroded or transported by a flowing stream.

Sediment hydrograph is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

Single sample is a sample taken at a selected permanent vertical in a cross section. Two bottles of water-sediment mixture make up each single sample.

Single sampling vertical is a selected permanent vertical in a cross section in which single suspended sediment samples are collected.

Suspended sediment is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

Suspended sediment concentration is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. The units of this ratio are "milligrams per litre" (mg/L).

Suspended sediment load is the quantity of suspended sediment transported through a cross section per unit of time.

Total sediment load is the sum of the suspended sediment load and the bed load.

Unmeasured sediment load is the difference between total sediment load and measured suspended sediment load.

DEFINITION OF SYMBOLS

Symbols are located at the bottom of the data sets under the headings Time, Discharge, Concentration, and Dissolved Solids. The symbols with their definitions are listed below.

Time Symbol

E – Estimated – indicates estimated data. It indicates that the time of sample collection is estimated by some indirect method or comparison with other stream data.

Discharge Symbol(s)

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – Ice Conditions – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates estimated data. It indicates that the values recorded are estimated by some indirect method such as interpolation, extrapolation, comparison with other streams or by comparison with meteorological data.

Sédiments (Sediment): Matières fragmentaires qui ont été déposées, érodées ou transportées par un cours d'eau.

Hydrogramme des sédiments (Sediment hydrograph): Graphique représentant la variation de la concentration des sédiments en suspension ou du débit des sédiments en fonction du temps.

Échantillon unique (Single sample): Échantillon prélevé sur une verticale permanente particulière dans une section transversale. Deux bouteilles du mélange eau-sédiments constituent un seul échantillon.

Verticale d'échantillonnage unique (Single sampling vertical): Verticale permanente d'une section transversale où des échantillons uniques de sédiments en suspension sont prélevés.

Sédiments en suspension (Suspended sediment): Matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

Concentration des sédiments en suspension (Suspended sediment concentration): Rapport entre le poids des matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Les unités employées sont les «milligrammes par litre» (mg/L).

Débit des sédiments en suspension (Suspended sediment load): Quantité de sédiments en suspension transportés par unité de temps à travers une section transversale d'un cours d'eau.

Débit total des sédiments (Total sediment load): Somme du débit des sédiments en suspension et du débit charrié.

Débit non mesuré des sédiments (Unmeasured sediment load): Différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

DÉFINITION DES SYMBOLES

Les symboles figurent au bas des séries de données et sont traités sous les rubriques Temps, Débit, Concentration, Matières solides en solution. Ces symboles avec leurs définitions sont donnés dans la liste ci-après.

Symbole du temps :

E – Estimative – Indique des données estimatives, c'est-à-dire que l'heure de prélèvement de l'échantillon est évaluée de façon indirecte ou par comparaison avec d'autres données sur les cours d'eau.

Symbole(s) du débit :

A – Turbidisonde simple – Indique qu'on a effectué à une station de jaugeage dotée d'une turbidisonde enregistreuse au moins une observation par jour à l'aide d'une turbidisonde simple et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours des périodes d'eau libre.

B – Glaces – Indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – Estimative – Indique des données estimatives, c'est-à-dire que les valeurs enregistrées sont évaluées de façon indirecte, par exemple par interpolation, extrapolation, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

H – Daily Mean Discharge – is the mean discharge for a particular day, usually referred to as the "daily mean discharge".

V – Daily Mean; Manual Gauge – is the mean discharge for a particular day and indicates that one or more manual gauge observations per day were obtained and used as the mean for the day.

W – Daily Mean; Ice Conditions – is the mean discharge for a particular day and indicates that the presence of ice has affected the stage-discharge relationship.

Y – Daily Mean; Estimated – is the mean discharge for a particular day and indicates that the value has been estimated by some indirect method.

Concentration Symbol(s)

B – Split vertical sample Bottom portion only – indicates that the concentration represents a sample collected from the bottom portion of a split vertical sample.

C – Coarse Material Present – indicates that during the laboratory analysis coarse material (sand) was observed in the sediment sample.

F – Sample Bottle Filled – indicates that during the laboratory analysis it was observed that the sample bottle had been filled to capacity.

G – Organic Material Present – indicates that during the laboratory analysis it was observed that organic material was collected in the sample bottle.

T – Split vertical sample Top portion only – indicates that the concentration represents a sample collected from the top portion only of a split vertical sample.

Single Vertical Symbol(s)

M – Sediment measurement vertical – indicates that the sampling vertical is one of several, usually five, and represents a panel width. The instantaneous discharge represents the flow for a panel width.

X – Sampling vertical not at the regular single vertical – indicates that a sample was collected at a location, in a cross-section, which is not at the regular single vertical. The location of the regular single vertical is given at the bottom of the Instantaneous Suspended Sediment data.

Z – Sediment measurement vertical not at the regular measurement cross-section – indicated that a suspended sediment measurement was collected in a cross-section which is not the regular measurement corss-section.

Note: If no symbol is present the samples have then been collected at the regular Single Vertical.

H – Débit journalier moyen – Débit moyen pour une journée donnée, ordinairement appelé «débit journalier moyen».

V – Débit journalier moyen, turbidisonde simple – Débit moyen pour une journée donnée; indique qu'on a effectué au moins une observation par jour et qu'on s'en est servi comme moyenne pour la journée en question.

W – Débit journalier moyen, glaces – Débit moyen pour une journée donnée; indique que la présence de glaces a faussé la relation hauteur-débit.

Y – Débit journalier moyen; estimative – Débit moyen pour une journée donnée; indique que la valeur a été évaluée de façon indirecte.

Symbole(s) de la concentration :

B – Échantillon fractionné pris à la verticale, partie inférieure seulement – Indique que la concentration réfère à un échantillon prélevé dans la partie inférieure d'un échantillon fractionné pris à la verticale.

C – Sable grossier présent – Indique qu'au cours de l'analyse en laboratoire on a observé du sable grossier dans un échantillon de sédiments.

F – Flacon d'échantillonnage rempli – Indique qu'au cours de l'analyse en laboratoire on a observé que le flacon d'échantillonnage avait été complètement rempli.

G – Substance organique présente – Indique qu'au cours de l'analyse en laboratoire on a observé qu'une substance organique a été prélevée dans le flacon d'échantillonnage.

T – Échantillon fractionné pris à la verticale, partie supérieure seulement – Indique que la concentration réfère à un échantillon prélevé dans la partie supérieure seulement d'un échantillon fractionné pris à la verticale.

Symbole(s) de la verticale unique :

M – Verticale de mesure des sédiments – Indique que la verticale d'échantillonnage est l'une de plusieurs verticales, en général cinq, et qu'elle représente la dimension d'une tranche. Le débit instantané représente le débit relatif à la dimension d'une tranche.

X – Verticale d'échantillonnage à l'extérieur de la verticale unique habituelle – Indique qu'un échantillon a été prélevé à un endroit, dans une section transversale, mais à l'extérieur de la verticale unique habituelle. L'endroit de la verticale unique habituelle est donné à la fin des données sur les sédiments en suspension instantanés.

Z – Verticale de mesure des sédiments, à l'extérieur de la section transversale de mesure habituelle – Indique qu'une mesure de sédiments en suspension a été prise dans une section transversale à l'extérieur de la section transversale de mesure habituelle.

Note : S'il n'y a pas de symbole, cela indique que les échantillons ont été prélevés à la verticale unique habituelle.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit − 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre vaut 1.6093 km (kilomètre)

1 cm (centimètre) vaut 0.393 70 pouce
1 m (mètre) vaut 3.2808 pieds
1 km (kilomètre) vaut 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre vaut 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré vaut 2.5900 km^2 (kilomètres carrés)
1 mille carré vaut 259.0 ha (hectares)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) vaut 2.4710 acres
1 km^2 (kilomètre carré) vaut 0.386 10 mille carré

1 pied cube vaut 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial vaut 1.2010 gallon américain
1 gallon américain vaut 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour vaut 1.9835 acre-pied
1 pied cube par seconde pendant un jour couvre un volume d'un mille carré par 0.037 19 pouce
1 acre-pied vaut 1.2335 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde vaut 0.6818 mille par heure
1 mille par heure vaut 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètres par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde vaut 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) vaut 35.315 pieds cubes par seconde

1 livre vaut 0.453 59 kg (kilogramme)
1 kg (kilogramme) vaut 2.2046 livres

1 tonne courte (2000 livres) vaut 0.907 18 t (tonne)
1 t (tonne) vaut 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit − 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when the data were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway.

Revisions to daily discharges or sediment data are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Revisions, corrections or additions made to discharges and sediment after January 1, 1980, are indicated by an "R" symbol in the data summaries. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

RÉVISIONS

On a corrigé ou révisé des données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calcul lorsqu'on a enregistré les données sur rubans magnétiques et qu'on a recalculé les moyennes mensuelles à l'aide d'un ordinateur. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de certaines données de base au cours de la révision systématique des données historiques sur le débit, actuellement en cours.

Les corrections apportées aux débits journaliers ou aux données sur les sédiments ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont indiquées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données révisées sur les débits mensuels et annuels moyens et les extrêmes annuels du débit. Les révisions, corrections ou ajouts apportés aux données sur les débits et sur les sédiments après le 1er janvier 1980 sont indiqués par la lettre R dans les résumés des données. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

NEW BRUNSWICK

COAL BRANCH RIVER AT BEERSVILLE - STATION NO. 01BS001

SUSPENDED SEDIMENT FOR 1985

LOCATION LAT 48 26 37 N LONG 65 03 55 W
DRAINAGE AREA: 185 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 2 290 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.540 B	2	0.09	4.50 B	3	1.17	0.620 B	2	0.11	1
2	0.510 B	3	0.13	3.70 B	3	0.96	0.600 B	2	0.10	2
3	0.482 B	3	0.12	3.35 B	3	0.87	0.580 B	2	0.10	3
4	0.438 B	3	0.11	2.70 B	3	0.70	0.570 B	2	0.10	4
5	0.410 B	2	0.07	2.30 B	2	0.40	0.580 B	2	0.10	5
6	0.390 B	3	0.10	2.13 B	2	0.37	0.540 B	2	0.09	6
7	0.360 B	3	0.09	2.00 B	3	0.52	0.530 B	2	0.09	7
8	0.340 B	2	0.06	1.82 B	3	0.47	0.520 B	2	0.09	8
9	0.330 B	2	0.06	1.70 B	2	0.29	0.500 B	2	0.08	9
10	0.318 B	2	0.05	1.58 B	2	0.27	0.490 B	2	0.08	10
11	0.308 B	2	0.05	1.48 B	2	0.25	0.480 B	2	0.08	11
12	0.300 B	2	0.05	1.38 B	2	0.24	0.469 B	2	0.08	12
13	0.290 B	2	0.05	1.31 B	2	0.23	0.460 B	2	0.08	13
14	0.282 B	2	0.05	1.23 B	2	0.21	0.450 B	2	0.08	14
15	0.274 B	2	0.05	1.18 B	2	0.20	0.450 B	2	0.08	15
16	0.268 B	2	0.05	1.10 B	2	0.19	0.448 B	5	0.19	16
17	0.264 B	2	0.05	1.03 B	2	0.18	0.452 B	4	0.16	17
18	0.258 B	2	0.04	0.980 B	2	0.17	0.600 B	1	0.05	18
19	0.340 B	2	0.05	0.940 B	2	0.16	1.20 B	7	0.73	19
20	0.800 B	4	0.28	0.900 B	3	0.16	1.90 B	32	5.25	20
21	1.10 B	21	2.00	0.880 B	3	0.16	2.40 B	8	1.86	21
22	0.950 B	8	0.65	0.820 B	3	0.21	2.05 B	8	1.06	22
23	0.820 B	5	0.35	0.780 B	3	0.20	1.80 B	5	0.78	23
24	0.740 B	3	0.19	0.750 B	3	0.18	1.52 B	4	0.53	24
25	0.840 B	4	0.22	0.730 B	3	0.18	1.30 B	4	0.45	25
26	4.80 B	4	1.59	0.710 B	3	0.18	1.04 B	3	0.27	26
27	7.40 B	29	18.5	0.680 B	2	0.12	1.80 B	28 S	4.35	27
28	8.80 B	30 S	16.9	0.660 B	2	0.11	3.60 B	27	8.40	28
29	7.80 B	5 S	3.37				8.00 B	15	11.1	29
30	5.50 B	4	2.25				20.0 B	15 S	31.1	30
31	5.20 B	3	1.35				33.0 B	17 S	48.5	31
TOTAL	53.032		48.89	43.300		8.37	88.939		115.83	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	38.0 B	19 S	62.4	5.58	4	2.27	4.27	4 S	1.48	1
2	30.0 B	23 S	59.8	5.81	4	2.01	7.08	53 S	32.4	2
3	24.0 B	14 S	29.0	5.04	3	1.31	8.48	21	15.3	3
4	19.0 B	13 S	21.3	4.15	4	1.43	5.05	4	2.09	4
5	15.0 B	16 S	20.7	3.50	3	0.91	4.85	4	1.88	5
6	11.9 B	9 S	9.25	3.08	3	0.80	4.15	3	1.08	6
7	10.5	8 S	7.53	2.82	3	0.73	3.57	4	1.23	7
8	8.61	3 S	2.23	2.55	3	0.66	3.55	41 S	12.6	8
9	12.3	54 S	57.4	2.36	6 S	1.23	8.92	38 S	27.7	9
10	24.7	35 S	74.7	2.22	4	0.77	5.78	9	4.50	10
11	25.1	80 S	130	2.01	3	0.52	4.35	6	2.01	11
12	24.6	80 S	172	1.88	2	0.32	3.72	7	2.25	12
13	25.6	88 S	184	1.71	2	0.30	3.24	8	1.88	13
14	20.5	19 S	33.7	1.54	2	0.27	2.88	6	1.49	14
15	18.8	12 S	19.8	1.40	3	0.38	2.56	5	1.33	15
16	17.3	12 S	17.8	1.27	3	0.33	2.30	6 S	1.19	16
17	16.6	11 S	17.7	1.24	2	0.21	2.08	6	1.08	17
18	15.5	9 S	12.1	1.24	2	0.21	1.81	6	0.94	18
19	11.9	7 S	7.20	1.21	3 S	0.21	1.80	7	0.97	19
20	9.90	7 S	5.98	1.16	3	0.20	1.42	6	0.74	20
21	8.53	10 S	8.23	1.10	2	0.19	1.28	6	0.85	21
22	12.0	16	16.6	1.18	3 S	0.31	1.16	4	0.40	22
23	16.8	41 S	59.5	3.87	28 S	8.88	1.05	4	0.36	23
24	36.5	38	133	15.4	37 S	49.2	0.950	3	0.25	24
25	20.5	13 S	23.0	18.8	16 S	25.7	0.871	2	0.15	25
26	17.7	5	7.85	11.5	12	11.9	0.801	2	0.14	26
27	16.9	8 S	11.0	7.45	6	5.15	0.752	2 S	0.13	27
28	12.1	3	3.14	6.71	6 S	4.84	0.716	2 S	0.12	28
29	8.46	4	3.27	6.67	6 S	3.70	0.705	2 S	0.12	29
30	7.80	5	3.38	6.20	3	1.61	0.723	2	0.12	30
31				4.84	5	2.13				31
TOTAL	540.60		1 212.97	138.10		126.46	81.868		117.19	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

COAL BRANCH RIVER AT BEERSVILLE - STATION NO. 01BS001

SUSPENDED SEDIMENT FOR 1988

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.722	2	0.12	4.65	10 S	4.02	1.32	4	0.46	1
2	0.701	2	0.12	2.87	18 S	4.46	1.13	5	0.49	2
3	0.672	2	0.12	2.14	17	3.14	1.08	4	0.37	3
4	0.853	2 S	0.11	1.87	8 S	1.36	0.983	4	0.34	4
5	0.845	3	0.17	1.50	4	0.52	0.903	4	0.31	5
6	0.832	5 S	0.27	1.11	4	0.38	0.830	4	0.29	6
7	0.814	7	0.37	0.903	4	0.31	0.810	3	0.21	7
8	0.573	4	0.20	0.788	4	0.27	0.787	3	0.20	8
9	0.532	3	0.14	1.87	15	2.72	0.647	4	0.22	9
10	0.501	3	0.13	3.79	17 S	5.57	0.627	4	0.22	10
11	0.482	3	0.13	3.02	7	1.83	0.812	10 S	0.70	11
12	0.486	2	0.08	2.50	6	1.30	5.35	27 S	12.5	12
13	0.477	3	0.12	1.72	6	0.89	5.25	10	4.57	13
14	0.469	3 S	0.12	1.27	4	0.44	2.95	7	1.78	14
15	0.634	5 S	0.27	1.04	5	0.45	1.91	5	0.83	15
16	0.911	3 S	0.24	0.892	5	0.38	1.47	5	0.64	16
17	0.752	2	0.13	0.825	5	0.38	1.20	5	0.52	17
18	0.629	3	0.16	0.843	7 S	0.51	1.03	5 S	0.53	18
19	0.606	4	0.21	5.00	13 S	5.74	0.895	5	0.46	19
20	0.546	4 S	0.19	5.98	9 S	4.85	0.829	5	0.43	20
21	0.488	4	0.18	4.11	8	2.84	0.788	4	0.28	21
22	0.426	4	0.15	2.57	7	1.55	0.782	3	0.19	22
23	0.355	4	0.12	1.80	6	0.93	0.803	1 S	0.07	23
24	0.290	3	0.08	2.24	14 S	2.71	3.05	11 S	2.90	24
25	0.259	2	0.05	7.72	20 S	13.3	5.11	13 S	5.74	25
26	0.424	5	0.22	5.87	5	2.84	5.03	7 S	3.04	26
27	0.728	11 S	0.69	3.88	4 S	1.34	3.40	4	1.18	27
28	0.645	4	0.22	4.35	7 S	2.83	2.40	4	0.83	28
29	0.621	4	0.21	2.94	4	1.02	1.88	6 S	0.98	29
30	0.582	4	0.20	2.08	4	0.71	1.61	5 S	0.78	30
31	1.91	13	2.15	1.56	4	0.54				31
TOTAL	18.992		7.85	84.881		70.42	55.857		42.14	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	2.50	5 S	1.08	0.856	3	0.17	7.00 B	27	16.3	1
2	2.34	4	0.77	0.826	5 S	0.36	4.80 B	21	8.35	2
3	1.84	4	0.64	1.12	4	0.39	3.40 B	22 S	6.45	3
4	1.70	3	0.44	0.962	4	0.34	5.40 B	28 S	12.1	4
5	2.01	3	0.52	0.887	4	0.31	5.10 B	21 S	9.25	5
6	1.73	2	0.30	0.850 B	4	0.29	4.40 B	18	6.84	6
7	1.45	2	0.25	0.815	4	0.28	3.80 B	14	4.80	7
8	1.28	2	0.22	0.780 B	4	0.27	3.25 B	12	3.37	8
9	1.20	3	0.31	0.829	4 S	0.29	2.80 B	11	2.88	9
10	1.28	3	0.33	1.00	3	0.26	2.50 B	9	1.94	10
11	1.16	3	0.30	0.936	4	0.32	2.25 B	7	1.38	11
12	1.08	3	0.28	0.871	4	0.30	2.05 B	5	0.89	12
13	1.01	3	0.26	0.824	4	0.28	1.87 B	5	0.81	13
14	0.952	4 S	0.34	0.750 B	4	0.26	1.75 B	4	0.60	14
15	1.05	4	0.36	0.700 B	4	0.24	1.71 B	5	0.74	15
16	0.943	4	0.33	0.640 B	4 S	0.22	1.55 B	5	0.67	16
17	0.900	4	0.31	0.590 B	3	0.15	1.48 B	4	0.51	17
18	0.909	4	0.31	0.550 B	2	0.10	1.38 B	5	0.60	18
19	0.974	4	0.34	0.630 B	3	0.14	1.30 B	5	0.56	19
20	0.931	4	0.32	0.600 B	2	0.09	1.22 B	5	0.53	20
21	0.884	4	0.31	1.10 B	5	0.48	1.15 B	5	0.50	21
22	0.874	4	0.30	2.30 B	84	12.7	1.10 B	4	0.38	22
23	0.888	4 S	0.30	4.00 B	55	19.0	1.04 B	4	0.36	23
24	0.888	4	0.30	6.40 B	38	21.0	0.980 B	2	0.17	24
25	0.877	4	0.30	9.00 B	78	60.7	0.980 B	3	0.25	25
26	0.827	3	0.21	7.80 B	53	35.2	1.40 B	24	2.80	26
27	0.777	3	0.20	12.0 B	49 S	50.8	1.83 B	15	2.37	27
28	0.778	3 S	0.20	15.0 B	98	127	1.52 B	6	0.84	28
29	0.791	3	0.21	13.0 B	85	73.0	1.42 B	4	0.49	29
30	0.760	3	0.20	10.5 B	36	32.7	1.32 B	5	0.57	30
31	0.744	3	0.19				1.22 B	4	0.42	31
TOTAL	36.211		10.73	98.835		438.84	72.860		88.38	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

COAL BRANCH RIVER AT BEERSVILLE - STATION NO 01BS001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 28	11:25	0.0	9.80	B	9.0	D49	29	60														
JAN 29	13:55	0.0	7.80	B	9.0	D49	5															
MAR 27	10:15	0.0	1.80	B	9.0	D49	18															
MAR 30	16:15	0.0	20.0	B	9.0	D49	19	58														
MAR 31	11:10	0.0	33.0	B	9.0	D49	17															
APR 01	09:20	0.0	38.0	B	9.0	D49	18															
APR 02	10:50	0.0	30.0	B	9.0	D49	25															
APR 02	19:00	0.0	30.0		9.0	D49	23															
APR 03	10:10	0.0	24.0		9.0	D49	14															
APR 04	11:00	0.0	19.0		9.0	D49	13															
APR 04	19:00	0.0	19.0		9.0	D49	12															
APR 05	18:50	0.5	15.0		9.0	D49	16															
APR 06	13:00	1.0	11.9		9.0	D49	8															
APR 06	19:05	1.0	11.9		9.0	D49	9															
APR 07	10:50	1.0	10.3		9.0	D49	9															
APR 07	19:20	1.0	9.80		9.0	D49	6															
APR 08	13:35	1.0	7.98		9.0	D49	3															
APR 09	10:20	1.0	10.4		9.0	D49	51															
APR 09	18:30	1.5	17.3		9.0	D49	95															
APR 10	09:10	1.0	22.9		9.0	D49	48															
APR 10	18:20	1.5	29.0		9.0	D49	6															
APR 11	10:50	1.5	25.4		9.0	D49	71															
APR 11	19:05	1.5	24.7		9.0	D49	67															
APR 12	19:15	1.0	30.0		9.0	D49	101															
APR 13	12:20	1.0	25.6		9.0	D49	88															
APR 13	18:58	1.0	28.1		9.0	D49	75															
APR 14	11:20	1.0	19.2		9.0	D49	14															
APR 14	18:05	1.0	22.9		9.0	D49	13															
APR 15	11:00	1.0	17.3		9.0	D49	13															
APR 15	19:40	1.0	21.8		9.0	D49	11															
APR 16	12:00	1.0	16.8		9.0	D49	12	12														
APR 17	08:32	2.0	19.2		9.0	D49	7															
APR 18	13:00	2.0	15.2		9.0	D49	5															
APR 19	19:15	3.0	12.2		9.0	D49	8															
APR 20	10:00	4.0	10.4		9.0	D49	8															
APR 20	18:45	5.0	10.1		9.0	D49	8															
APR 21	11:10	5.0	9.54		9.0	D49	8															
APR 23	11:15	4.0	13.8		9.0	D49	40															
APR 23	19:00	3.0	18.9		9.0	D49	33															
APR 24	10:40	2.0	40.7		9.0	D49	30															
APR 24	19:50	2.0	30.0		9.0	D49	38															
APR 25	11:30	4.0	20.8		9.0	D49	8															
APR 27	16:35	5.0	16.2		9.0	D49	8															
MAY 09	12:40	9.0	2.48		9.0	D49	6															
MAY 19	12:35	13.0	1.07		9.0	D49	1															
MAY 22	11:55	10.0	1.07		9.0	D49	3															
MAY 23	09:35	11.0	2.01		9.0	D49	31															
MAY 23	20:25	10.0	8.50		9.0	D49	32															
MAY 24	19:00	9.0	25.8		9.0	D49	51															
MAY 25	11:55	9.0	19.5		9.0	D49	10															
MAY 25	18:55	9.0	17.3		9.0	D49	12															
MAY 28	10:35	9.0	5.45		9.0	D49	3															
MAY 28	09:30	10.0	5.75		9.0	D49	3															
JUN 01	12:00	11.0	4.08		9.0	D49	4	97														
JUN 01	14:00	10.0	4.08		9.0	D49	4															
JUN 02	09:50	9.0	4.47		9.0	D49	25															
JUN 08	19:20	14.0	3.18		9.0	D49	124															
JUN 08	10:40	13.0	9.28		9.0	D49	12															
JUN 16	14:25	17.0	2.22		9.0	D49	6															
JUN 27	17:45	19.0	0.675		9.0	D49	1															
JUN 28	19:20	18.0	0.882		9.0	D49	1															
JUN 29	19:50	18.0	0.880		9.0	D49	2															
JUL 04	12:00	19.0	0.488		9.0	D49	1															
JUL 08	18:45	21.0	0.833		9.0	D49	8	111														
JUL 14	19:40	17.0	0.488		9.0	D49	2															
JUL 15	11:20	16.0	0.570		9.0	D49	2															
JUL 15	09:45	15.0	0.917		9.0	D49	2															
JUL 20	13:30	25.0	0.535		9.0	D49	4															
JUL 27	18:45	21.0	0.875		9.0	D49	8															
AUG 01	11:25	15.0	4.85		9.0	D49	4															
AUG 02	20:00	17.0	2.83		9.0	D49	24															
AUG 04	18:15	22.0	2.14		9.0	D49	6															
AUG 10	12:15	15.0	4.50		9.0	D49	15															
AUG 18	13:24	21.0	0.885		9.0	D49	7	97														
AUG 19	12:50	18.0	8.11		9.0	D49	8															
AUG 20	09:30	18.0	6.11		9.0	D49	10															
AUG 24	12:45	12.5	1.57		9.0	D49	5															
AUG 24	19:30	12.0	3.53		9.0	D49	37															
AUG 25	07:10	12.0	8.48		9.0	D49	15															
AUG 27	18:50	13.0	3.90		9.0	D49	3															
AUG 28	17:30	14.0	4.27		9.0	D49	4															
SEP 11	13:00	13.0	0.748		9.0	D49	8															
SEP 11	18:35	13.0	1.03		9.0	D49	14															
SEP 12	13:30	14.0	8.24		9.0	D49	23	58														
SEP 18	09:55	11.0	1.10		9.0	D49	7															
SEP 23	09:03	8.0	0.320		9.0	D49	1															
SEP 24	10:55	9.0	3.82		9.0	D49	10															
SEP 25	13:35	9.0	8.80		9.0	D49	15															
SEP 26	12:25	11.0	5.24		9.0	D49	6															
SEP 29	15:10	11.0	1.90		9.0	D49	7															
SEP 30	11:10	13.0	1.88		9.0	D49	4															
SEP 30	18:00	13.0	2.14		9.0	D49	4															
OCT 01	10:45	12.0	2.83		9.0	D49	4															
OCT 14	12:15	12.0	1.00		9.0	D49	4	115														
OCT 23	13:25	7.0	2.83		9.0	D49	3															
OCT 28	10:30	5.0	0.782		9.0	D49	3															
NOV 02	16:45	5.0	0.841		9.0	D49	5															
NOV 09	14:35	1.0	0.820		9.0	D49	3															
NOV 16	16:20	1.0	0.840	B	9.0	D49	4															
NOV 27	15:10	0.0	12.0	B	9.0	D49	42															
DEC 03	13:45	0.5	3.40		9.0	D49	18															
DEC 04	12:45	0.0	5.40		9.0	D49	22															
DEC 05	13:05	0.0	5.10		9.0	D49	23															

NOTE : SINGLE VERTICAL LOCATED AT 9.0 METRES FOR 1986

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

NEW BRUNSWICK

COAL BRANCH RIVER AT BEERSVILLE - STATION NO. 01BS001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY - APR-DEC MEAN LOAD (TONNES)	SUMMARY - APR-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY - APR-DEC STANDARD ERROR OF MEAN %
1984	--PCCCCCCCCC	MANUAL	51 APR 25	1 MAY 07 *	248 JUL 09	2 030	7.36	7.36	---
1985	CCCCCCCCCCCC	MANUAL	239 JUN 07 *	1 JAN 30	372 JUN 07 *	850	3.02	5.19	41.8
1986	CCCCCCCCCCCC	MANUAL	124 JUN 08	1 MAY 19	184 APR 13	2 290 *	7.70	6.03	25.0

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR005

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 45 12 35 N LONG 67 15 45 W
DRAINAGE AREA: 115 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 333 TONNES FOR THE PERIOD APR 01 TO DEC 31

REMARKS

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	15.0 B	28	36.7	3.84	2	0.68	1.69	2	0.29	1
2	15.7	18 S	21.7	3.63	8 S	2.51	1.78	4	0.62	2
3	13.1	6 S	6.78	3.26	3 S	0.84	1.67	2	0.29	3
4	10.2	4 S	3.53	2.93	2 S	0.51	1.54	2	0.27	4
5	7.78	3	2.02	2.66	2	0.46	1.42	3	0.37	5
6	6.01	4 S	2.08	2.47	3 S	0.64	1.27	3	0.33	6
7	4.92	3 S	1.28	2.28	2	0.39	1.12	1	0.10	7
8	4.62	6 S	2.40	2.11	2	0.36	1.12	3	0.28	8
9	8.20	17 S	8.11	1.90	2	0.33	1.18	3	0.31	9
10	6.56	6 S	3.40	1.69	1	0.15	0.952	2	0.18	10
11	6.65	3 S	1.72	1.50	1	0.13	0.848	2	0.15	11
12	7.63	5 S	3.30	1.36	1	0.12	0.714	1 S	0.08	12
13	7.18	4 S	2.48	1.20	1	0.10	0.556	2	0.10	13
14	6.44	3 S	1.67	1.11	1 S	0.10	0.494	1	0.04	14
15	5.89	3 S	1.47	0.983	1	0.08	0.409	1	0.04	15
16	4.88	3 S	1.27	0.851	1	0.07	0.393	2	0.07	16
17	4.37	2 S	0.78	0.886	3	0.22	0.408	2	0.07	17
18	3.88	2 S	0.67	0.832	2	0.14	0.461	2 S	0.08	18
19	3.45	3 S	0.88	0.757	2	0.13	0.417	2	0.07	19
20	3.10	2 S	0.54	0.701	1	0.08	0.360	1	0.03	20
21	2.88	2 S	0.48	0.664	1	0.06	0.305	1	0.03	21
22	3.47	9 S	2.70	0.633	1	0.05	0.251	1	0.02	22
23	4.00	5 S	1.73	0.840	7	0.51	0.223	2	0.04	23
24	8.27	11 S	5.96	2.81	31	7.53	0.207	1	0.02	24
25	8.79	3 S	1.76	3.58	18	4.95	0.182	2	0.03	25
26	7.30	9	5.68	4.10	9 S	3.19	0.166	2	0.03	26
27	7.47	6 S	3.87	4.46	10 S	3.85	0.152	2	0.03	27
28	8.32	3	1.64	3.85	4 S	1.34	0.194	6	0.10	28
29	5.30	2	0.92	3.06	4 S	1.06	0.202	4	0.07	29
30	4.55	2	0.79	2.37	3 S	0.61	0.172	3	0.04	30
31				1.95	2 S	0.34				31
TOTAL	188.89		131.32	65.387		31.51	20.876		4.15	TOTAL

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.152	3	0.04	0.166	4	0.06	1.83	1	0.16	1
2	0.150	3	0.04	0.124	3	0.03	1.45	1	0.13	2
3	0.155	3	0.04	0.220	6	0.11	1.13	2	0.20	3
4	0.153	2	0.03	0.304	3	0.08	0.924	2	0.16	4
5	0.144	2	0.02	0.203	2	0.04	0.782	2	0.14	5
6	0.143	2	0.02	0.188	3	0.04	0.723	2	0.12	6
7	0.222	6	0.12	0.144	2	0.02	0.700	2	0.12	7
8	0.207	2	0.04	0.184	2	0.03	0.610	1	0.05	8
9	0.158	2	0.03	0.288	5	0.12	0.525	2	0.09	9
10	0.126	2	0.02	0.557	11	0.53	0.478	2	0.08	10
11	0.109	2	0.02	0.592	10	0.51	0.538	4	0.19	11
12	0.105	2	0.02	0.524	8	0.43	0.678	3	0.18	12
13	0.101	3	0.03	0.577	4	0.20	0.575	2	0.12	13
14	0.110	4	0.04	0.539	4	0.18	0.558	2	0.10	14
15	0.154	8	0.08	0.513	3	0.13	0.492	2	0.09	15
16	0.138	4	0.05	0.722	11	0.68	0.509	2	0.09	16
17	0.100	2	0.02	0.783	5	0.34	0.487	2	0.08	17
18	0.186	5	0.07	0.673	4	0.23	0.452	2	0.08	18
19	0.149	3	0.03	0.918	9	0.71	0.428	2	0.07	19
20	0.118	2	0.02	0.886	2 S	0.13	0.387	2	0.07	20
21	0.095	2	0.02	0.527	2	0.09	0.356	2	0.06	21
22	0.073	1	0.01	0.486	2	0.08	0.330	2	0.06	22
23	0.053	1	0	0.408	1	0.04	0.492	4	0.31	23
24	0.044	1	0	4.47	43	16.6	0.885	9	0.78	24
25	0.034	1	0	3.47	9	2.70	1.27	8 S	0.88	25
26	0.033	1	0	3.15	8	1.83	0.998	2	0.17	26
27	0.078	3	0.02	4.27	14 S	5.18	0.873	2	0.15	27
28	0.136	4	0.05	4.39	6 S	2.28	0.831	2	0.14	28
29	0.087	2	0.02	3.52	2 S	0.61	0.821	2	0.14	29
30	0.078	2	0.01	2.84	1 S	0.25	1.29	10	1.11	30
31	0.188	7	0.11	2.31	1	0.20				31
TOTAL	3.765		1.02	38.798		34.25	22.584		5.91	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR005

SUSPENDED SEDIMENT FOR 1986

DAY	OCT			NOV			DEC			DAY
	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	
1	1.41	3	0.24	0.494	1	0.04	3.58 E	9 S	2.88	1
2	1.27	3	0.22	0.549	4	0.19	3.67 E	6 S	1.49	2
3	1.21	2	0.21	0.582	2	0.10	6.95	33	19.9	3
4	1.48	7	0.90	0.581	4	0.20	11.1	17 S	16.3	4
5	1.81	3	0.42	0.574	3	0.15	8.22	6 S	6.37	5
6	1.56	2	0.27	0.570 E	3	0.15	7.86	9 S	8.19	6
7	1.63	2	0.28	0.592	3	0.15	6.02	2 S	1.04	7
8	1.52	2	0.26	0.567	3	0.15	4.80	2	0.79	8
9	1.43	3	0.37	0.624	3	0.16	4.00 E	2	0.64	9
10	1.32	3	0.34	0.648	3	0.17	3.40 E	2	0.59	10
11	1.21	3	0.31	0.646	3	0.17	2.90 E	2	0.50	11
12	1.06	3	0.28	0.655	3	0.17	2.50 E	2	0.43	12
13	0.993	3	0.26	0.674	3	0.12	2.12 E	3	0.55	13
14	1.00	4	0.35	0.633	8	0.44	1.88 E	2	0.32	14
15	1.06	5	0.46	0.605 E	9	0.47	1.89 E	2	0.28	15
16	0.947	3	0.25	0.580 E	4	0.20	1.52 E	2	0.26	16
17	0.956	3	0.25	0.580 E	3	0.15	1.37 E	2	0.24	17
18	0.913	3	0.24	0.540 E	2	0.08	1.24 E	2	0.21	18
19	0.841	3	0.22	0.520 E	3 S	0.13	1.17 E	2	0.20	19
20	0.803	3	0.21	0.500 E	2	0.08	1.10 E	2	0.19	20
21	0.765	2	0.13	0.600 E	18	0.83	1.02 E	2	0.18	21
22	0.756	3	0.20	0.780 E	11	0.74	0.960 E	2	0.17	22
23	0.718	2	0.12	0.980 E	5	0.42	0.920 E	2	0.16	23
24	0.685	1	0.06	1.25 E	13	1.40	0.880 E	2	0.15	24
25	0.651	2	0.11	1.80 E	7	1.09	1.80 E	25	3.48	25
26	0.626	3	0.16	2.80 E	11	2.47	4.32 E	15	5.87	26
27	0.596	2	0.10	4.75	25	10.3	3.85 E	5	1.86	27
28	0.578	2	0.10	4.75	9 S	3.88	3.40 E	4	1.18	28
29	0.568	2	0.10	5.13	14 S	6.21	2.95 E	3	0.91	29
30	0.552	2	0.10	4.58	8	3.17	2.80 E	3	0.45	30
31	0.532	1	0.05				2.35 E	3	0.41	31
TOTAL	31.246		7.57	36.932		33.91	102.170		73.71	TOTAL

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR005

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 02	12:00	7.0	15.5		7.5	DH48	7															
APR 02	17:00	5.5	15.5		7.5	DH48	13															
APR 03	12:00	5.5	13.7		7.5	DH48	5															
APR 03	17:00	5.5	13.7		7.5	DH48	5	32														
APR 04	12:00	4.0	10.6		7.5	DH48	4															
APR 04	17:00	7.0	9.83		7.5	DH48	3															
APR 05	12:30	5.5	8.10		7.5	DH48	4															
APR 07	12:00	4.0	5.10		7.5	DH48	2															
APR 08	12:00	4.0	4.39		7.5	DH48	3															
APR 08	12:30	3.0	5.88		7.5	DH48	12	60														
APR 09	16:20	4.0	8.97		7.5	DH48	22															
APR 10	09:45	4.0	8.71		7.5	DH48	3															
APR 10	12:00	4.0	8.53		7.5	DH48	4															
APR 10	17:00	7.0	8.53		7.5	DH48	6															
APR 11	12:00	4.0	8.53		7.5	DH48	2															
APR 11	17:30	4.0	8.75		7.5	DH48	2															
APR 12	12:30	4.0	8.10		7.5	DH48	7															
APR 12	16:30	4.0	8.10		7.5	DH48	4															
APR 13	12:30	7.0	7.42		7.5	DH48	2															
APR 13	17:00	7.0	7.42		7.5	DH48	3															
APR 14	17:30	8.0	8.53		7.5	DH48	1															
APR 15	11:30	8.0	8.10		7.5	DH48	2															
APR 15	17:30	9.0	8.88		7.5	DH48	2															
APR 16	15:30	10.0	5.10		7.5	DH48	2															
APR 17	16:25	10.0	4.55		7.5	DH48	1															
APR 18	12:30	9.0	4.13		7.5	DH48	1															
APR 19	12:30	10.0	3.75		7.5	DH48	3															
APR 20	11:30	9.0	3.48		7.5	DH48	1															
APR 21	17:20	9.0	3.02		7.5	DH48	2															
APR 22	14:20	10.5	4.05		7.5	DH48	5															
APR 23	17:30	8.0	4.05		7.5	DH48	1															
APR 24	15:30	8.0	6.75		7.5	DH48	4															
APR 25	11:00	8.0	7.05		7.5	DH48	3															
APR 25	17:15	8.0	7.20		7.5	DH48	2															
APR 27	17:30	15.5	6.30		7.5	DH48	2															
MAY 03	13:30	7.0	3.75		7.5	DH48	6	42														
MAY 03	16:30	10.0	3.24		7.5	DH48	2															
MAY 04	12:30	9.0	3.02		7.5	DH48	1															
MAY 06	17:30	13.0	2.47		7.5	DH48	3															
MAY 14	08:30	9.0	1.17		7.5	DH48	1															
MAY 26	17:00	16.0	5.10		7.5	DH48	8															
MAY 27	17:30	16.0	5.29		7.5	DH48	5															
MAY 28	17:30	16.0	4.39		7.5	DH48	5															
MAY 29	17:30	16.5	3.48		7.5	DH48	3															
MAY 30	17:30	21.0	2.80		7.5	DH48	3															
MAY 31	12:00	15.5	2.47		7.5	DH48	1	47														
JUN 12	16:30	18.0	0.761		7.5	DH48	1															
JUN 18	08:45	9.5	0.487		7.5	DH48	3															
AUG 20	09:11	18.0	0.884		7.5	DH48	1															
AUG 27	18:00	15.5	5.39		7.5	DH48	23															
AUG 28	18:00	15.5	4.22		7.5	DH48	3															
AUG 29	18:45	15.5	2.87		7.5	DH48	1	50														
AUG 30	14:00	18.0	2.87		7.5	DH48	1															
SEP 25	13:37	13.0	1.30		7.5	DH48	1															
NOV 18	10:00	0.0	0.761		7.5	DH48	1															
NOV 26	17:10	3.5	4.76		7.5	DH48	5															
NOV 29	12:00	3.5	5.20		7.5	DH48	15															
DEC 01	17:00	1.0	3.66	B	7.5	DH48	10															
DEC 02	17:15	1.0	3.47	B	7.5	DH48	4															
DEC 04	13:00	3.0	11.6		7.5	DH48	10															
DEC 04	16:00	3.0	10.3		7.5	DH48	8															
DEC 05	17:00	2.0	9.28		7.5	DH48	10															
DEC 06	12:00	1.0	8.10		7.5	DH48	10															
DEC 07	11:00	0.0	8.05		7.5	DH48	1															

NOTE : SINGLE VERTICAL LOCATED AT 7.5 METRES FOR 1986

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1984	---EEEEEEEEP	MANUAL	48	APR 05	1	APR 14 *	84.4	APR 05 *	436 *	***	***	***
1985	---EEEEEEEE-	MANUAL	139	MAY 07 *	1	APR 12	37.3	MAY 22	331	***	***	***
1986	---EEEEEEEEE	MANUAL	23	AUG 27	1	APR 14	38.7	APR 01	323	***	***	***

MANUAL - MANUAL SAMPLING

E - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

GRANDE RIVIERE AT VIOLETTE BRIDGE - STATION NO. 01AF007

SUSPENDED SEDIMENT FOR 1986

LOCATION: LAT 47 14 48 N LONG 67 55 16 W
DRAINAGE AREA: 339 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 6 990 TONNES FOR THE PERIOD APR 15 TO NOV 16

REMARKS:

	APR				MAY				JUN			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)		DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)		DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	8.00 B				31.3	21 S	56.8		5.20	7	3.16	1
2	13.5 B				28.5	17 S	41.8		5.15	15	8.01	2
3	19.5 B				23.5	13 S	26.4		5.37	15	5.96	3
4	24.0 B				17.0	14 S	20.6		4.56	15	5.51	4
5	20.0 B				13.6	11 S	12.9		4.11	14	4.97	5
6	17.5 B				12.2	13 S	13.8		3.92	13	4.40	6
7	16.0 B				11.5	13	12.9		3.31	13 S	3.72	7
8	14.4 B				10.8	14	13.1		4.48	13 S	5.04	8
9	13.8 B				9.80	15	13.7		4.11	31	11.1	9
10	13.0 B				8.85	18	13.2		4.61	15	5.97	10
11	13.5 B				8.31	18	12.8		3.71	10 S	3.31	11
12	25.0 B				7.78	18 S	12.7		3.16	8	2.68	12
13	34.0 B				8.68	17	10.1		2.88	8	2.24	13
14	32.0 B				8.35	15	6.78		3.77	8	2.15	14
15	30.0 B				8.69	14 S	9.12		2.82	11 S	2.49	15
16	28.5 B	185 S	456		8.48	13	8.17		2.32	13	2.61	16
17	27.7	158 S	381		8.28	12	8.47		2.48	18 S	4.07	17
18	32.9	151 S	428		8.19	10	4.48		2.58	17	3.78	18
19	34.3	107 S	317		8.52	8	4.39		2.38	13	2.67	19
20	32.1	77 S	214		9.13	28 S	22.1		2.06	11	1.88	20
21	33.8	71 S	207		13.8	35 S	61.7		1.67	10	1.52	21
22	48.4	165 S	774		24.2	61 S	107		1.76	10	1.52	22
23	83.8	132 S	728		18.7	16 S	27.2		1.65	8	1.38	23
24	48.7	65 S	273		14.4	14 S	17.6		1.67	7	0.95	24
25	45.1	61 S	238		11.1	11 S	10.5		2.78	14 S	3.36	25
26	58.1	71 S	344		8.58	8	6.46		3.83	28	8.54	26
27	69.6	82 S	319		7.66	7	4.83		2.83	17	3.70	27
28	58.3	41 S	186		8.74	12 S	9.08		2.24	13 S	2.52	28
29	46.3	37 S	148		8.18	16	8.88		2.37	13	2.65	29
30	39.6	37 S	92.4		8.85	12	7.31		2.08	10	1.81	30
31					5.80	8	4.61					31
TOTAL	945.50		5 110.4		381.01		583.07		97.30		114.83	TOTAL

	JUL				AUG				SEP			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)		DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)		DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.79	8	1.39		4.21	30 S	10.9		2.86	9	1.87	1
2	1.57	8	1.09		3.67	21	7.02		3.52	8	1.82	2
3	1.43	6	0.74		2.91	8	2.26		3.33	4	1.15	3
4	1.75	6	0.91		2.35	8	1.62		3.13	7	1.89	4
5	3.42	23 S	6.80		1.84	7	1.11		2.84	15	3.61	5
6	3.27	19	5.37		1.50	5	0.65		2.84	30 S	5.08	6
7	3.35	13 S	2.64		1.88	14 S	2.27		3.02	16	4.70	7
8	3.13	14	2.58		15.5	127 S	170		2.89	11 S	3.04	8
9	1.87	11	1.78		10.9	43 S	73.8		2.75	6	1.03	9
10	1.66	9	1.21		13.8	33	37.4		2.50	6	1.04	10
11	1.33	7	0.80		8.03	17	11.6		2.93	13 S	3.38	11
12	1.21	8	0.82		5.87	15 S	7.74		8.58	26 S	30.7	12
13	1.16	4	0.40		4.61	14	5.33		16.4	70 S	83.1	13
14	1.28	6	0.66		3.81	11	3.36		8.04	28	22.7	14
15	8.59	86 S	71.3		2.93	10	2.63		5.86	22	10.6	15
16	11.8	81	82.6		3.83	8	2.68		4.24	22	6.06	16
17	8.71	22	10.8		6.16	7	3.72		3.80	21	6.53	17
18	6.58	24	13.8		4.76	27	11.3		3.17	20	5.48	18
19	7.88	34	22.4		8.53	32 S	15.3		2.83	19	4.61	19
20	5.26	20	9.07		4.51	16 S	5.64		2.74	18	4.26	20
21	3.99	15	5.53		3.47	11	3.30		2.61	19	4.06	21
22	3.35	13	3.37		5.70	17 S	8.37		2.38	18 S	3.28	22
23	3.45	11	3.33		6.76	17	8.65		2.87	15	3.48	23
24	1.99	9	1.55		8.81	16	11.9		8.40	18 S	8.98	24
25	1.67	10	1.44		31.6	36 S	51.6		9.30	20 S	16.1	25
26	1.47	10	1.27		13.1	11 S	12.5		8.83	14	10.7	26
27	1.48	10 S	1.38		8.34	8	4.32		8.24	10	6.38	27
28	1.35	9	1.05		8.58	8	3.40		4.96	6	2.57	28
29	1.24	8	0.88		8.47	8	2.64		4.21	2 S	0.73	29
30	1.16	7	0.83		4.76	8	2.06		4.63	2	0.83	30
31	1.27	7	0.77		4.36	8	1.88					31
TOTAL	94.06		356.85		304.86		477.41		163.86		383.14	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

GRANDE RIVIERE AT VIOLETTE BRIDGE - STATION NO. 01AF007

SUSPENDED SEDIMENT FOR 1986

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	6.00	7 S	4.17	4.73	14	5.72				1
2	5.58	3	0.87	4.31	12	4.47				2
3	4.78	3	1.24	4.66	11	4.22				3
4	4.84	3	1.16	4.11	11	3.91				4
5	5.27	6	2.73	3.80	10	3.11				5
6	4.80	3	1.20	3.71	8	2.58				6
7	4.91	6 S	2.55	3.47	8	2.40				7
8	4.68	6	2.11	3.30	9	2.57				8
9	4.70	4	1.82	5.17	34 S	15.2				9
10	4.37	4	1.68	10.8	34	31.1				10
11	3.62	4	1.32	7.36	15	10.1				11
12	3.65	6	1.63	6.26	13	7.12				12
13	3.33	6	1.73	4.92	9	3.83				13
14	3.22	15 S	4.17	4.14	9	3.25				14
15	4.10	13 S	4.61	4.85 S	9	3.77				15
16	4.46	15	5.78	4.55 S	6	2.36				16
17	3.86	11	3.75	4.10 S						17
18	3.32	11	3.16	3.80 S						18
19	3.08	11	2.88	3.50 S						19
20	3.00	10	2.59	3.23 S						20
21	2.84	9 S	2.29	3.10 S						21
22	3.34	5 S	1.44	2.94 S						22
23	3.43	5	1.48	2.70 S						23
24	3.43	5	1.78	3.22 S						24
25	3.27	6	1.70	4.16 S						25
26	2.36	9	2.53	3.80 S						26
27	3.14	13	3.76	5.80 S						27
28	3.34	17 S	4.78	7.50 S						28
29	3.74	16	5.17	8.30 S						29
30	4.65	16 S	6.43	5.65 S						30
31	5.05	14	6.36							31
TOTAL	134.98		90.10	139.33		105.89				TOTAL

S - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

GRANDE RIVIERE AT VIOLETTE BRIDGE - STATION NO. 01AF007

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 16	16:35	2.0	26.3	16.0	D49	188															
APR 16	20:00	5.0	25.7	16.0	D49	170															
APR 17	16:30	3.0	31.5	16.0	D49	214															
APR 17	19:30	1.0	31.2	16.0	D49	182															
APR 18	16:25	3.0	34.5	16.0	D49	168															
APR 18	19:00	1.0	36.9	16.0	D49	206															
APR 19	08:45	0.0	32.1	16.0	D49	111															
APR 20	10:00	1.0	31.5	16.0	D49	69															
APR 20	16:30	5.0	32.0	16.0	D49	79															
APR 21	16:30	2.0	33.2	16.0	D49	61															
APR 21	18:10	4.0	33.1	16.0	D49	55															
APR 22	08:15	1.0	39.5	16.0	D49	102															
APR 22	10:50	2.0	46.9	16.0	D49	228															
APR 22	16:35	2.0	55.0	16.0	D49	328															
APR 22	18:45	1.5	57.7	16.0	D49	242															
APR 23	16:30	3.0	63.3	16.0	D49	101															
APR 23	18:25	2.0	62.3	16.0	D49	91															
APR 24	08:20	0.0	53.5	16.0	D49	72															
APR 24	16:35	3.0	45.0	16.0	D49	59	85														
APR 24	19:00	4.0	43.7	16.0	D49	55															
APR 25	08:20	1.0	44.0	16.0	D49	54															
APR 25	16:40	4.0	45.2	16.0	D49	56															
APR 25	19:45	5.0	46.8	16.0	D49	59															
APR 26	09:00	3.0	56.2	16.0	D49	88															
APR 26	17:00	4.0	57.7	16.0	D49	63															
APR 26	19:00	4.0	58.1	16.0	D49	68															
APR 27	10:40	3.0	81.2	16.0	D49	59															
APR 27	14:45	5.0	80.9	16.0	D49	51															
APR 27	20:00	6.0	59.4	16.0	D49	49															
APR 28	08:30	3.0	59.4	16.0	D49	45															
APR 28	16:30	7.0	54.3	16.0	D49	33															
APR 28	19:50	6.5	51.8	16.0	D49	38															
APR 28	16:30	8.0	48.0	16.0	D49	36															
APR 28	19:35	7.0	44.0	16.0	D49	29															
APR 30	08:25	4.0	43.1	16.0	D49	30															
APR 30	16:35	6.0	38.5	16.0	D49	27															
MAY 01	08:45	3.0	33.5	16.0	D49	22															
MAY 01	12:45	5.0	32.3	16.0	D49	21															
MAY 02	09:10	5.0	28.7	16.0	D49	20															
MAY 02	13:00	4.5	29.3	16.0	D49	17															
MAY 03	11:30	1.5	24.4	16.0	D49	13															
MAY 04	18:30	4.0	18.5	16.0	D49	16															
MAY 05	11:10	2.0	14.0	16.0	D49	11															
MAY 06	12:35	4.5	12.3	16.0	D49	14															
MAY 12	10:50	7.0	7.83	16.0	D49	19															
MAY 15	13:15	12.0	8.15	16.0	D49	13															
MAY 20	12:45	8.0	10.2	16.0	D49	31															
MAY 21	12:25	8.0	11.5	16.0	D49	19															
MAY 22	12:45	9.5	28.6	16.0	D49	39															
MAY 23	12:40	7.0	20.5	16.0	D49	14															
MAY 24	18:00	9.0	13.9	16.0	D49	14	99														
MAY 25	10:45	8.0	11.9	16.0	D49	10															
MAY 28	12:45	12.0	8.82	16.0	D49	12															
JUN 07	19:35	15.0	3.58	16.0	D49	16															
JUN 08	19:00	13.0	5.55	16.0	D49	13															
JUN 11	11:10	13.0	3.88	16.0	D49	9															
JUN 15	09:45	14.0	2.77	16.0	D49	10															
JUN 17	15:45	14.0	2.76	16.0	D49	21															
JUN 25	15:50	16.0	3.14	16.0	D49	14															
JUN 28	18:30	17.0	3.44	16.0	D49	11															
JUL 05	10:15	15.0	3.31	16.0	D49	22															
JUL 07	12:00	17.0	2.50	16.0	D49	11															
JUL 07	18:00	16.0	2.37	16.0	D49	16	103														
JUL 15	14:30	13.0	12.1	16.0	D49	122															
JUL 27	15:00	23.0	1.81	16.0	D49	10															
AUG 01	09:45	13.0	4.40	16.0	D49	22															
AUG 07	14:00	20.0	2.22	16.0	D49	18															
AUG 08	16:30	17.0	22.7	16.0	D49	166															
AUG 09	11:00	15.0	21.9	16.0	D49	28															
AUG 12	16:20	15.0	6.08	16.0	D49	15															
AUG 19	18:45	14.0	5.83	16.0	D49	13	118														
AUG 20	07:50	15.0	4.82	16.0	D49	23															
AUG 22	18:25	17.0	7.14	16.0	D49	19															
AUG 25	14:00	12.0	23.9	16.0	D49	28															
AUG 26	10:45	11.0	13.9	16.0	D49	7															
SEP 05	18:30	14.0	3.14	16.0	D49	22															
SEP 08	13:40	11.0	3.27	16.0	D49	9															
SEP 11	14:35	11.0	3.03	16.0	D49	18															
SEP 12	14:15	11.0	11.3	16.0	D49	24															
SEP 13	08:50		18.7	16.0	D49	85	105														
SEP 22	11:20		2.77	16.0	D49	16															
SEP 24	18:45		7.90	16.0	D49	12															
SEP 25	18:45	8.0	11.9	16.0	D49	31															
SEP 29	11:30	8.0	4.45	16.0	D49	1															
OCT 01	11:20	8.0	7.46	16.0	D49	4															
OCT 07	12:15	4.0	8.18	16.0	D49	8															
OCT 14	12:00	7.5	5.85	16.0	D49	16															
OCT 15	11:35	6.0	4.38	16.0	D49	12															
OCT 21	13:30	8.0	3.10	16.0	D49	9															
OCT 22	12:00	9.0	3.48	16.0	D49	4															
OCT 28	10:50	3.0	3.31	16.0	D49	17															
OCT 30	11:45	5.0	4.59	16.0	D49	14															
NOV 09	11:15	2.0	4.23	16.0	D49	27															

NOTE : SINGLE VERTICAL LOCATED AT 16 METRES FOR 1986

GRANDE RIVIERE AT VIOLETTE BRIDGE - STATION NO. 01AF007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY MEAN LOAD (TONNES)	SUMMARY HISTORICAL MEAN LOAD (TONNES)	SUMMARY STANDARD ERROR OF MEAN %
1984	---CCCCCCC--	MANUAL	137	APR 30	3	OCT 23	835	MAY 02	7 810 *	---	---	---
1985	---CCCCCCCP-	MANUAL	232	APR 22	1	SEP 11 *	354	APR 28	6 880	---	---	---
1988	---PCCCCCCP-	MANUAL	242	APR 22 *	1	SEP 29	774	APR 22 *	8 990	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1986

LOCATION LAT 45 42 07 N LONG 65 36 05 W
DRAINAGE AREA 1 100 km²
TYPE OF FLOW NATURAL
TYPE OF GAUGE RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 32 400 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	8.80 B	24	18.2	58.0 B	17 S	85.2	7.70 B	1	0.67	1
2	8.10 B	57 S	35.8	60.0 B	15	88.1	7.42 B	1	0.64	2
3	7.80 B	30 S	19.4	44.2 B	14	53.5	7.10 B	2	1.23	3
4	8.90 B	15	8.84	38.5 B	11	38.5	8.90 B	2	1.19	4
5	8.40 B	8	6.42	35.5 B	10	30.7	8.82 B	2	1.14	5
6	8.00 B	6	2.07	32.0 B	9	24.9	8.50 B	2	1.12	6
7	8.80 B	3	0.97	29.8 B	8	19.4	8.30 B	2	1.08	7
8	8.11 B	2 S	0.84	27.2 B	8	14.1	8.10 B	2	1.05	8
9	4.25 B	2	0.84	25.1 B	6	8.87	8.00 B	2	1.04	9
10	4.62 B	2	0.80	23.6 B	3	8.09	8.85 B	2	1.01	10
11	4.40 B	3	1.14	22.0 B	2	3.80	8.70 B	5	2.46	11
12	4.15 B	2	0.72	20.0 B	1	1.73	8.55 B	4	1.92	12
13	3.95 B	3	1.02	18.5 B	1	1.60	8.40 B	6	2.33	13
14	3.75 B	3	0.97	17.2 B	2	2.67	8.40 B	6	2.33	14
15	3.40 B	3	0.93	16.2 B	2	2.80	8.00 B	39	30.3	15
16	3.80 B	3	0.81	15.2 B	1	1.31	12.2 B	14	14.8	16
17	3.60 B	3	0.81	14.2 B	2	2.65	10.6 B	10	8.33	17
18	3.70 B	3	0.98	13.2 B	2	2.25	10.0 B	5	4.32	18
19	4.30 B	4	1.49	12.5 B	2	2.16	40.0 B	31	107	19
20	7.10 B	63	38.8	11.8 B	2	3.04	130 B	190	1 880	20
21	6.70 B	136	78.7	11.1 B	2	1.92	105 B	25	227	21
22	5.80 B	11	5.61	10.5 B	2	1.81	80.0 B	25	173	22
23	5.40 B	25	11.7	10.1 B	2	1.75	68.0 B	18	106	23
24	5.00 B	11	4.76	9.80 B	2	1.85	58.0 B	15	75.2	24
25	4.70 B	8	3.85	9.20 B	1	0.78	52.0 B	14	62.8	25
26	4.50 B	8	3.11	9.00 B	1	0.78	80.0 B	11	87.0	26
27	40.0 B	77	266	8.60 B	1	0.74	93.0 B	27	217	27
28	120 B	183	2 000	8.30 B	1	0.72	82.8	36	261	28
29	82.0 B	106 S	761				67.2	88 S	511	29
30	73.0 B	45	284				85.2	82	577	30
31	64.0 B	19	105				133	373	3 140	31
TOTAL	617.13		3 857.61	801.00		377.57	1 186.84		9 372.07	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	139	222 S	2 670	40.0	6	20.7	18.7	5	8.88	1
2	108	184	1 810	37.5	5	15.2	26.7	37	85.4	2
3	95.1	97 S	805	34.2	7	20.7	29.5	16	40.9	3
4	78.8	36	259	30.7	10 S	26.5	30.5	7	12.5	4
5	63.2	30 S	164	27.8	11	26.4	17.4	5	8.02	5
6	51.2	20 S	88.5	25.7	10	22.2	15.7	5	6.78	6
7	44.1	20	76.2	23.8	8	16.5	13.6	5	5.88	7
8	40.6	35	87.7	21.6	8	14.8	13.1	4	4.53	8
9	80.1	314	2 200	20.0	7	12.1	17.4	17	25.5	9
10	104	169 S	1 430	18.7	7	11.3	13.5	5	5.88	10
11	84.3	41 S	324	16.8	7	10.0	11.4	4	3.88	11
12	108	107 S	971	15.3	7 S	9.25	10.4	4	3.59	12
13	109	121 S	1 140	14.5	4	5.15	9.50	3	2.48	13
14	83.5	33 S	258	14.0	3	3.93	10.5	6	5.24	14
15	78.1	23 S	151	13.3	3	3.42	9.80	7	5.93	15
16	68.5	25 S	148	12.3	3	3.19	8.84	7 S	5.41	16
17	65.6	33 S	130	11.8	2	3.04	8.40	6	4.87	17
18	59.7	19	98.0	12.0	2	2.07	8.13	4	2.81	18
19	51.2	11	48.7	11.0	2	1.90	7.13	3	1.85	19
20	45.8	10	38.6	10.3	2	1.78	6.88	3	1.71	20
21	42.4	8	33.0	10.0	2	1.73	6.03	3	1.88	21
22	48.1	60	213	10.8	2 S	1.88	5.56	2	0.97	22
23	65.8	80	512	17.5	21 S	31.5	5.54	2	0.88	23
24	122	231 S	2 430	45.2	87	340	5.48	2	0.85	24
25	88.8	61	391	81.5	26	110	5.52	2	0.88	25
26	70.8	28	172	31.3	8 S	18.2	5.38	1	0.48	26
27	62.7	12 S	85.0	24.8	7	15.0	4.89	1	0.43	27
28	55.7	12	57.7	21.2	8 S	14.7	5.61	3	1.48	28
29	49.4	8	38.4	18.7	10	17.0	5.11	3	1.58	29
30	44.0	7	26.8	17.8	8 S	13.7	5.37	2	0.93	30
31				17.7	12	18.6				31
TOTAL	2 309.1		18 844.4	878.9		818.38	333.88		387.33	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1988

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	4.80	2	0.85	52.0 E	10	44.9	5.98	2	1.21	1
2	4.67	2	0.81	35.0 E	7	21.2	5.40	1	0.55	2
3	4.67	2	0.81	20.0 E	29	50.1	7.29	1	0.63	3
4	4.68	1	0.40	15.0 E	30	38.9	5.62	2	1.16	4
5	4.64	1	0.39	10.5 E	7	6.35	5.14	1	0.53	5
6	4.65	1	0.39	7.30 E	5	3.11	5.70	3	1.48	6
7	4.61	1	0.38	6.30 E	5	2.72	5.62	1	0.49	7
8	4.56	1	0.40	8.00 E	5	3.46	5.50	1	0.42	8
9	4.13	1	0.36	15.5 E	5	7.13	4.94	1	0.43	9
10	3.88	1	0.34	54.0 E	4	18.7	4.80	1	0.40	10
11	3.80	1	0.34	40.0 E	3	10.4	5.34	2	0.92	11
12	3.84	1	0.33	24.0 E	3	6.22	12.1	23	24.0	12
13	3.85	1	0.33	14.0 E	2	2.42	9.89	2	1.87	13
14	3.92	1	0.34	9.50 E	1	0.82	7.00	1	0.60	14
15	4.43	1	0.38	7.00 E	1	0.60	5.85	1	0.49	15
16	5.48 A	2 S	0.95	6.20 E	22	11.6	5.12	1	0.44	16
17	5.90 E	3	1.53	7.20 E	1	0.62	4.89	1	0.41	17
18	8.70 E	8	4.83	6.70 A	2 S	1.16	4.71	1	0.41	18
19	8.20 E	3	2.13	6.57	2	1.14	4.84	1	0.40	19
20	7.50 E	2	1.30	6.98	2	1.21	4.43	1	0.38	20
21	6.00 E	3	1.56	6.68	2	1.15	4.18	2	0.72	21
22	4.70 E	2	0.81	5.90	1	0.51	4.07	1	0.35	22
23	3.45 E	2	0.60	5.39	1	0.47	4.17	1	0.36	23
24	3.15 E	2	0.54	5.85	1	0.51	10.1	15 S	13.1	24
25	2.90 E	2	0.50	13.0	19	18.7	10.2	6	5.29	25
26	2.70 E	3	0.70	9.03	3	2.34	8.81	5	3.81	26
27	4.40 E	6	2.28	10.4	17	15.3	7.33	4	2.53	27
28	9.70 E	7	5.87	25.8	38	84.7	8.30	3	1.83	28
29	12.2 E	5	5.27	14.9	3	3.88	5.24	3	1.36	29
30	8.30 E	5	4.02	10.3	2	1.78	8.05	10	6.96	30
31	35.0 E	42	127	8.03	2	1.39				31
TOTAL	192.34		166.64	486.94		384.87	181.80		73.21	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	12.9	13	14.5	6.21	2	0.73	26.6	8	18.4	1
2	9.37	2	1.62	4.86	4	1.68	33.2	8	16.0	2
3	7.18	1	0.62	8.63	42	31.3	26.7	33	73.3	3
4	7.65	4	2.61	5.28	2	1.08	51.3	57	253	4
5	10.7	11	10.2	5.28	1	0.46	36.6	6	19.0	5
6	8.27	1	0.71	4.43	1	0.38	26.8	8	13.5	6
7	8.38	4	2.87	4.68	1	0.40	21.5 B	5	9.29	7
8	7.81	3	1.97	4.82	1	0.42	19.2 B	4	6.84	8
9	7.18	2	1.24	5.11	3	1.32	17.8 B	4	6.15	9
10	8.57	5	3.70	7.28	12	9.55	16.5 B	4	5.70	10
11	7.60	2	1.28	5.34	1	0.55	15.3 B	3	3.97	11
12	6.83	2	1.15	5.38	2	0.83	14.6 B	2	2.51	12
13	6.32	3	1.64	5.37	1	0.46	13.9 B	2	2.40	13
14	8.18	2	1.08	6.00	1	0.52	13.5 B	2	2.33	14
15	6.83	3	1.80	6.32	3	1.84	13.0 B	2	2.25	15
16	5.87	2	1.03	4.98	3	1.28	12.4 B	2	2.14	16
17	5.48	1	0.47	4.54	2	0.78	12.1 B	2	2.08	17
18	5.47	1	0.47	4.30 B	2	0.74	11.8 B	3	3.06	18
19	5.88	2	0.98	6.08 B	3	1.06	11.3 B	3	2.93	19
20	6.84	3	0.98	3.95 B	3	1.02	11.1 B	3	2.88	20
21	5.36	2	0.82	12.1	31	32.4	10.8 B	3	2.80	21
22	5.63	2	0.87	51.6	111	495	10.5 B	3	2.72	22
23	6.76	2	1.00	29.6	12	30.7	10.4 B	3	2.70	23
24	5.64	2	0.86	36.4	65	204	10.1 B	4	3.48	24
25	5.27	2	0.81	55.1	20	95.8	10.0 B	2	1.73	25
26	4.84	2	0.80	36.3	6	18.6	19.5 B	55	110	26
27	4.58	2	0.78	65.4	152	672	17.0 B	4	5.88	27
28	4.52	2	0.78	61.6	26	138	14.6 B	2	2.65	28
29	4.46	2	0.77	39.2	8	27.1	13.2 B	2	2.28	29
30	4.42	1	0.38	33.4	18	51.9	11.8 B	2	2.04	30
31	4.18	1	0.38				10.8 B	2	1.87	31
TOTAL	203.51		59.62	539.60		2 021.11	533.1		586.01	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1988

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 02	22:30	1.0	8.10 B	29.9	049	45															
JAN 03	12:00	1.0	7.60 B	29.9	049	30	125														
JAN 08	14:00	0.0	5.11 B	29.9	049	2															
JAN 29	15:10	3.0	82.0 B	29.9	049	95															
FEB 01	13:15	3.0	56.0 B	29.9	049	17															
MAR 29	14:45	5.0	80.1	29.9	049	50															
APR 01	18:00	5.0	102	29.9	049	236															
APR 03	18:05	6.0	91.0	29.9	049	49															
APR 05	12:20	6.0	63.4	29.9	049	309															
APR 06	13:00	6.5	51.6	29.9	049	26															
APR 10	16:50	6.0	35.8	29.9	049	58															
APR 11	12:45	4.0	69.7	29.9	049	42	66														
APR 12	13:56	5.0	99.6	29.9	049	46															
APR 12	18:05	5.5	102	29.9	049	151															
APR 13	20:55	7.0	104	29.9	049	38															
APR 14	17:16	7.0	85.2	29.9	049	30															
APR 15	17:34	10.0	74.5	29.9	049	28															
APR 16	16:43	7.0	67.6	29.9	049	28															
APR 17	16:58	8.0	65.3	29.9	049	24															
APR 24	17:45	5.0	121	29.9	049	61															
APR 27	11:00	7.0	84.8	29.9	049	17															
MAY 04	09:22	6.0	32.0	29.9	049	12	70														
MAY 12	11:45	8.0	12.6	29.9	049	2															
MAY 22	22:00	8.0	13.2	29.9	049	3															
MAY 23	17:15	10.0	28.6	29.9	049	28															
MAY 25	17:11	7.0	20.6	29.9	049	4															
MAY 26	17:18	10.0	20.6	29.9	049	7															
MAY 30	17:20	8.0	32.0	29.9	049	11															
JUN 15	15:15	11.0	5.55	29.9	049	7															
JUL 15	15:10	20.0	4.58	29.9	049	5															
AUG 18	09:12		7.26	29.9	049	9															
SEP 24	08:56		10.1	29.9	049	9															

NOTE - SINGLE VERTICAL LOCATED AT 29.9 METRES FOR 1988

DISCHARGE SYMBOL(S) B - ICE CONDITIONS

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY - JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1966	-------CCCCCC	MANUAL	80	NOV 04	1	AUG 31	185	NOV 04	1 470	---	---	---
1967	CCCCCCCCCCCC	MANUAL	185	JUL 03	0	FEB 24 *	1 480	NOV 24	31 000	85.1	85.1	---
1968	CCCCCCCCCCCC	MANUAL	457	FEB 04	1	OCT 09	2 150	FEB 04	25 900	70.8	78.0	9.2
1969	CCCCCCCCCCCC	MANUAL	215	JAN 19	2	JUN 18	2 340	DEC 23	19 500	53.4	59.6	13.1
1970	CCCCCCCCCCCC	MANUAL	351	FEB 04	2	MAY 11	11 200	FEB 04	41 800	115	81.1	18.1
1971	CCCCCCCCCCCC	MANUAL	355	NOV 28	1	OCT 24	1 800	APR 15	28 300	77.8	80.4	12.8
1972	CCCCCCCCCCCC	MANUAL	861	OCT 08	1	FEB 06	5 680	MAY 04	43 900	120	87.0	12.2
1973	CCCCCCCCCCCC	MANUAL	406	MAR 12	2	SEP 09	3 020	APR 29	34 400	94.2	88.0	10.2
1974	CCCCCCCCCCCC	MANUAL	483	SEP 30	1	JUN 05	10 100	DEC 10	48 300	127	92.9	8.9
1975	CCCCCCCCCCCC	MANUAL	191	NOV 14	3	NOV 10	3 040	NOV 14	25 000	68.4	90.2	9.5
1976	CCCCCCCCCCCC	MANUAL	189	JAN 28	3	SEP 25	4 390	JAN 28	34 800	95.1	90.7	8.4
1977	CCCCCCCCCCCC	MANUAL	248	OCT 09	5	FEB 13	3 370	DEC 28	45 700	125	93.8	8.1
1978	CCCCCCCCCCCC	MANUAL	137	APR 20	3	DEC 31	1 910	APR 21	33 800	84.8	91.4	8.0
1979	CCCCCCCCCCCC	MANUAL	427	APR 10	2	OCT 21	7 850	JAN 03	62 400	171	97.5	9.4
1980	CCCCCCCCCCCC	MANUAL	232	APR 05	1	FEB 03	1 930	APR 05	15 800	53.5	94.3	9.6
1981	CCCCCCCCCCCC	MANUAL	781	OCT 08	2	JUL 31	11 500	FEB 12 *	68 200 *	190	101	10.4
1982	CCCCCCCCCCCC	MANUAL	200	APR 01	2	MAY 28	2 180	APR 01	23 700	64.9	98.5	10.3
1983	CCCCCCCCCCCC	MANUAL	144	DEC 14	3	FEB 23	3 200	DEC 14	34 700	97.7	98.7	10.0
1984	CCCCCCCCCCCC	MANUAL	928	APR 05 *	1	MAR 05	3 910	APR 05	43 700	119	97.8	9.4
1985	CCCCCCCCCCCC	MANUAL	335	MAY 22	1	JAN 02	1 400	APR 07	14 300	39.1	94.8	9.7
1986	CCCCCCCCCCCC	MANUAL	309	APR 05	2	JAN 08	3 140	MAR 31	32 400	88.6	94.5	9.3

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1986

LOCATION: LAT 45 16 36 N LONG 67 01 17 W
DRAINAGE AREA: 3.89 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 7.40 TONNES FOR THE PERIOD APR 01 TO OCT 31

REMARKS:

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.560 B	10	0.50	0.130	3	0.03	0.101	4	0.03	1
2	0.490 B	3	0.13	0.188	4	0.08	0.131	2	0.02	2
3	0.410 B	2	0.07	0.134	2	0.02	0.080	2	0.01	3
4	0.350 B	2	0.06	0.084	2	0.02	0.055	1 S	0	4
5	0.300	2	0.05	0.086	2	0.01	0.046	1	0	5
6	0.248	2	0.04	0.080	2	0.02	0.040	1	0	6
7	0.198	2	0.03	0.067	1	0.01	0.035	1	0	7
8	0.170	1	0.01	0.076	1	0.01	0.120	7 S	0.07	8
9	0.144	1	0.01	0.060	1	0.01	0.114	3	0.03	9
10	0.118	1 S	0.01	0.056	1	0	0.061	2	0.01	10
11	0.145	2	0.03	0.053	1	0	0.037	2	0.01	11
12	0.238	3	0.06	0.047	1	0	0.034	1 S	0	12
13	0.283	4	0.10	0.046	1	0	0.033	1	0	13
14	0.361	3	0.09	0.045	1	0	0.038	2	0.01	14
15	0.400	5	0.17	0.045	1	0	0.031	1	0	15
16	0.451	4	0.18	0.043	1	0	0.031	1	0	16
17	0.483	2 S	0.08	0.045	1	0	0.032	1	0	17
18	0.400	3	0.07	0.043	1	0	0.025	1	0	18
19	0.286	2	0.05	0.038	1	0	0.027	1	0	19
20	0.241	2	0.04	0.036	1	0	0.022	1	0	20
21	0.212	1 S	0.02	0.041	1 S	0	0.017	1	0	21
22	0.553	31 S	1.48	0.058	2	0.01	0.017	1	0	22
23	0.376	4	0.13	0.085	3	0.02	0.015	2 S	0	23
24	0.448	6	0.23	0.241	8 S	0.15	0.015	2	0	24
25	0.307	3	0.08	0.203	2	0.04	0.015	2	0	25
26	0.285	3	0.07	0.112	2	0.02	0.014	2	0	26
27	0.276	3	0.07	0.091	2	0.02	0.013	2	0	27
28	0.210	3	0.05	0.057	1	0.01	0.064	6	0.03	28
29	0.171	3	0.04	0.064	1	0.01	0.030	3	0.01	29
30	0.143	3 S	0.04	0.070	1	0.01	0.021	2	0	30
31				0.068	1	0.01				31
TOTAL	9.253		3.95	2.659		0.53	1.305		0.23	TOTAL

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.017	3	0	0.077	3	0.02	0.044	1	0	1
2	0.014	2	0	0.041	2	0.01	0.038	1	0	2
3	0.015	2	0	0.038	1	0	0.043	1	0	3
4	0.014	1	0	0.035	1	0	0.037	1	0	4
5	0.027	3	0.01	0.028	1	0	0.033	1	0	5
6	0.020	2	0	0.020	1	0	0.083	3	0.02	6
7	0.021	2	0	0.040	4 S	0.01	0.060	2	0.01	7
8	0.022	2	0	0.170	7 S	0.10	0.040	1	0	8
9	0.014	2	0	0.475	8 S	0.33	0.037	1	0	9
10	0.012	1	0	0.186	2	0.03	0.034	1	0	10
11	0.011	1	0	0.127	1	0.01	0.201	9 S	0.16	11
12	0.010	1	0	0.100	1	0.01	0.805	11 S	0.57	12
13	0.008	1	0	0.088	1	0.01	0.302	2	0.05	13
14	0.037	5	0.02	0.053	1 S	0	0.156	1	0.01	14
15	0.137	5 S	0.06	0.044	1	0	0.113	1	0.01	15
16	0.048	3	0.01	0.111	5 S	0.05	0.102	1 S	0.01	16
17	0.026	2	0	0.102	2	0.02	0.088	1	0.01	17
18	0.189	16 S	0.26	0.083	1	0.01	0.073	1	0.01	18
19	0.178	5	0.08	0.088	2	0.02	0.086	1	0.01	19
20	0.052	2	0.01	0.055	1	0.01	0.058	1	0.01	20
21	0.035	2	0.01	0.045	1	0	0.053	1	0	21
22	0.025	2 S	0	0.038	1	0	0.050	1	0	22
23	0.017	2	0	0.033	1	0	0.111	4 S	0.04	23
24	0.018	2	0	0.167	5 S	0.07	0.208	2	0.04	24
25	0.014	2	0	0.133	1	0.01	0.131	1	0.01	25
26	0.038	5	0.02	0.068	1 S	0.01	0.082	1	0.01	26
27	0.048	3	0.01	0.123	6 S	0.08	0.073	1	0.01	27
28	0.030	3	0.01	0.130	2	0.02	0.065	1	0	28
29	0.024	2	0	0.072	1	0.01	0.052	1 S	0	29
30	0.018	1	0	0.058	1	0	0.181	5 S	0.08	30
31	0.068	3	0.02	0.050	1	0				31
TOTAL	1.199		0.53	2.853		0.72	3.227		1.07	TOTAL

B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1986

	OCT									
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.148	2	0.03							1
2	0.098	1	0.01							2
3	0.084	1	0.01							3
4	0.183	5	0.07							4
5	0.148	1	0.01							5
6	0.103	1	0.01							6
7	0.084	1	0.01							7
8	0.080	2 S	0.01							8
9	0.074	1	0.01							9
10	0.069	1	0.01							10
11	0.080	1	0.01							11
12	0.059	1	0.01							12
13	0.080	1	0.01							13
14	0.080	2	0.01							14
15	0.078	2	0.01							15
16	0.059	2	0.01							16
17	0.052	1	0							17
18	0.047	1	0							18
19	0.047	1	0							19
20	0.044	1	0							20
21	0.042	1	0							21
22	0.040	1	0							22
23	0.062	1	0.01							23
24	0.058	1	0.01							24
25	0.048	1	0							25
26	0.043	1	0							26
27	0.040	1	0							27
28	0.043	1	0							28
29	0.042	1	0							29
30	0.044	3 S	0.01							30
31	0.040	2	0.01							31
TOTAL	2.127		0.28							TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 10	13:50	0.5	0.087	MID	DIP	1															
APR 17	11:15	1.5	0.388	MID	DIP	1															
APR 21	10:47	2.5	0.204	MID	DIP	1															
APR 22	01:40		0.243	10LB	SURF	2															
APR 22	07:00		0.425	10LB	SURF	55															
APR 22	11:00		0.711	10LB	SURF	73															
APR 30	10:00	6.5	0.183	MID	DIP	3															
MAY 21	08:28	7.5	0.048	MID	DIP	1															
MAY 24	10:00		0.134	10LB	SURF	6															
MAY 24	12:00		0.243	10LB	SURF	23															
JUN 04	10:43	8.5	0.084	MID	DIP	1															
JUN 08	16:00		0.134	10LB	SURF	20															
JUN 08	17:40		0.243	10LB	SURF	16															
JUN 12	08:13	8.5	0.037	MID	DIP	1															
JUN 23	08:11	12.0	0.017	MID	DIP	2															
JUL 15	01:30		0.143	10LB	SURF	11															
JUL 18	19:30		0.243	10LB	SURF	21															
JUL 18	22:15		0.425	10LB	SURF	32															
JUL 22	07:30	11.0	0.027	MID	DIP	2															
AUG 07	21:00		0.134	10LB	SURF	18															
AUG 08	08:55		0.243	10LB	SURF	20															
AUG 09	02:00		0.425	10LB	SURF	34															
AUG 09	05:00		0.711	10LB	SURF	15															
AUG 14	08:53	12.0	0.087	MID	DIP	1															
AUG 16	14:00		0.134	10LB	SURF	17															
AUG 24	15:50		0.243	10LB	SURF	12															
AUG 26	08:00	11.0	0.074	MID	DIP	1															
AUG 27	14:50		0.134	10LB	SURF	18															
AUG 27	17:05		0.243	10LB	SURF	27															
SEP 11	16:00		0.425	10LB	SURF	21															
SEP 12	08:00		0.711	10LB	SURF	27															
SEP 16	07:40	7.5	0.096	MID	DIP	1															
SEP 23	15:50		0.134	10LB	SURF	8															
SEP 23	21:30		0.243	10LB	SURF	10															
SEP 29	08:04		0.053	MID	DIP	8															
SEP 30	07:55		0.134	10LB	DIP	8															
SEP 30	11:45		0.243	10LB	DIP	10															
OCT 08	08:01		0.087	MID	DIP	7															
OCT 30	08:05	6.5	0.040	MID	DIP	8															

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1986

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY APR-OCT MEAN LOAD (TONNES)	SUMMARY APR-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY APR-OCT STANDARD ERROR OF MEAN %
1974	---PCCCCCP--	DUAL	13	AUG 04	1	JUL 11 *	1.35	MAY 01	9.89	---	---	---
1975	---PCCCCCC--	DUAL	5	MAY 01	1	MAY 05	0.43	MAY 11	4.10	---	---	---
1976	---CCCCCCC--	DUAL	10	JUL 12	1	APR 15	2.18	AUG 10	13.8	0.05	0.05	---
1977	---CCCCCCC--	DUAL	17	JUN 20	3	SEP 01	1.29	JUN 05	21.5 *	0.10	0.05	25.0
1978	---CCCCCC---	DUAL	36	JUN 08	1	MAY 11	0.41	JUN 08	7.40	---	---	---
1979	--PCCCCCCC--	DUAL	33	AUG 13	1	MAY 02	1.05	AUG 13	12.0	0.05	0.07	21.8
1980	---PCCCCCC--	MANUAL	24	APR 11	1	MAY 11	1.75	APR 11	7.28	---	---	---
1981	---CCCCCCC--	MANUAL	20	SEP 19	1	APR 28	0.83	APR 05	10.2	0.05	0.07	17.5
1982	---CCCCCCC--	MANUAL	24	JUN 02	1	AUG 19	1.00	APR 18	8.76	0.05	0.06	16.2
1983	---CCCCCCC--	MANUAL	32	APR 17	1	APR 15	2.80	APR 18 *	10.4	0.05	0.06	13.6
1984	---CCCCCCC--	MANUAL	45	JUN 15	1	APR 26	0.80	APR 07	7.88	0.04	0.06	12.6
1985	---CCCCCCC--	MANUAL	38	JUL 10	1	APR 24	0.87	APR 17	4.08	0.02	0.05	18.0
1986	---CCCCCCC--	MANUAL	73	APR 22 *	1	APR 10	1.48	APR 22	7.40	0.03	0.05	14.8

DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BO001

SUSPENDED SEDIMENT FOR 1986

LOCATION LAT 46 46 10 N LONG 65 49 36 W
DRAINAGE AREA 5 050 km²
TYPE OF FLOW NATURAL
TYPE OF GAUGE RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 21 900 TONNES FOR THE PERIOD APR 01 TO NOV 30

REMARKS

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	290 B	1	25.1	393	2 S	67.9	121	2 S	20.9	1
2	400 B	1	34.6	339	3 S	87.9	150	4 S	51.8	2
3	470 B	1	40.6	313	3 S	81.1	183	4 S	63.2	3
4	420 B	1	36.3	273	3 S	70.8	151	4 S	52.2	4
5	380 B	1	32.8	237	4 S	81.9	125	3	32.4	5
6	348	2	60.1	210	2 S	36.3	112	3	29.0	6
7	308	1	26.6	191	4 S	66.0	99.5	4	34.4	7
8	262	1	21.8	175	4 S	60.5	88.8	6	1.2	8
9	219	1	18.9	161	2 S	27.8	141	12	146	9
10	234	3	60.7	148	3 S	38.6	140	6 S	72.6	10
11	236	9	184	137	3 S	35.5	113	5 S	48.8	11
12	289	19	442	128	4 S	44.2	96.0	3 S	24.8	12
13	323	31	885	119	3	30.8	83.2	4	28.8	13
14	385	43 S	1 360	108	3 S	28.0	76.7	4	26.5	14
15	397	41	1 410	101	2	17.5	72.8	5	31.5	15
16	404	33 S	1 150	93.5	3 S	24.2	68.2	6 S	35.4	16
17	461	30 S	1 190	86.4	4 S	30.6	63.8	8	33.1	17
18	514	26 S	1 160	86.5	4 S	29.9	58.1	5	29.4	18
19	480	13 S	539	83.5	5 S	36.1	87.0	4	23.2	19
20	433	9 S	337	78.8	4 S	27.2	58.3	3	15.1	20
21	421	8 S	327	76.5	3 S	19.8	52.0	3 S	13.5	21
22	459	8 S	357	80.5	3	20.9	47.8	2	8.26	22
23	685	26 S	1 540	107 A	7 S	64.7	44.5	1	3.84	23
24	762 A	28 S	1 910	180 E	19 S	263	42.5	1	3.67	24
25	790 A	15 S	1 020	220 E	9	171	40.1	1	3.46	25
26	759	8 S	525	205 E	4 S	70.8	39.0	1 S	3.37	26
27	744	8 S	514	185 E	3 S	48.0	37.8	2	6.55	27
28	668	5 S	289	170 E	3 S	44.1	39.3	2	6.79	28
29	561	6 S	291	150 E	2 S	25.8	44.5	2	7.69	29
30	470	3 S	122	143 A	2 S	24.7	45.7	3 S	11.8	30
31				131	2 S	22.6				31
TOTAL	13 526		15 889.5	5 082.7		1 698.3	2 521.6		919.33	TOTAL

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	42.9	3	11.1	50.8	4 S	17.5	42.2	7	25.5	1
2	40.2	3	10.4	61.6	5	26.6	38.8	6	20.1	2
3	37.4	4	12.9	58.7	2	10.1	37.0	6 S	19.2	3
4	35.6	4 S	12.3	56.4	2	9.75	35.2	5	15.6	4
5	34.4	4	11.9	51.7	2	8.93	34.1	5	14.7	5
6	34.5	5	14.9	42.4	2	7.33	33.2	4	11.5	6
7	34.8	5	15.0	38.8	1	3.16	35.6	3	9.23	7
8	34.1	5	14.7	38.4	1	3.14	38.3	2	6.62	8
9	33.4	6 S	17.3	75.1	9 S	68.4	35.9	2	6.20	9
10	31.9	5	13.8	182	19	298	33.3	2	5.75	10
11	30.0	3	7.78	142	8	98.2	33.0	2	5.70	11
12	29.1	3	7.54	102	4	35.3	76.3	17	115	12
13	26.3	2	4.88	80.6	3	20.9	262	28	634	13
14	27.6	2	4.77	64.3	2	11.1	199	10 S	172	14
15	34.4	6 S	17.8	62.2	1	4.51	138	3	35.8	15
16	80.9	12	83.1	45.4	2 S	7.85	104	2	18.0	16
17	88.0	6	35.3	52.1	5	22.5	84.8	2	14.7	17
18	55.2	3	14.3	61.4	6	31.8	73.7	2	12.8	18
19	68.4	6	30.3	56.7	6	29.4	64.6	1	5.58	19
20	87.0	7	40.5	63.2	5	27.3	59.4	1	5.13	20
21	65.0	3	14.3	60.6	5	26.2	55.6	1	4.80	21
22	42.8	2	7.41	51.6	5	22.4	50.5	1	4.36	22
23	36.7	2	6.34	44.8	4	15.5	48.9	1	4.22	23
24	32.3	2	5.58	43.3	3 S	11.2	80.6	6	41.8	24
25	29.6	2 S	5.11	57.2	4 S	19.8	147	3	36.1	25
26	27.8	2	4.80	88.8	10	75.0	141	1	12.2	26
27	33.7	3	8.48	71.5	7	43.2	118	1	10.0	27
28	48.2	6 S	20.8	63.3	7	38.3	93.6	1	8.08	28
29	46.0	3	12.4	86.6	7	40.3	78.3	1	6.77	29
30	42.0	3	10.9	58.2	7	35.2	72.8	1	6.27	30
31	38.7	2	6.88	49.6	7	30.0				31
TOTAL	1 252.0		463.39	2 025.1		1 089.87	2 344.6		1 289.62	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BD001

SUSPENDED SEDIMENT FOR 1986

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	105	3 S	27.2	43.8	1	3.78				1
2	129	3	33.4	43.6	1 S	3.78				2
3	111	3 S	28.8	43.4	1 S	3.75				3
4	93.7	3	24.3	43.2	1	3.73				4
5	92.2	2	15.9	41.2	1	3.55				5
6	95.3	2	16.5	34.2	1	2.95				6
7	89.2	2	15.4	33.6	1	2.90				7
8	84.4	2	14.6	40.6	1	3.51				8
9	78.1	1	6.83	44.1	1	3.81				9
10	72.8	1	6.28	50.1	1	4.33				10
11	68.3	1	5.90	69.3	3	18.0				11
12	64.3	1	5.55	60.9	2	10.5				12
13	61.6	1	5.32	52.8	2	9.12				13
14	59.6	1	5.15	38.2	2	5.60				14
15	60.1	1	5.19	27.3	1	2.36				15
16	60.8	1	5.25	34.2	1	2.95				16
17	58.5	1	5.05	45.1	1	3.98				17
18	55.3	1	4.78	40.0 B	1	3.45				18
19	51.6	1	4.46	37.0 B	1	3.20				19
20	48.9	1	4.22	35.0 B	1	3.02				20
21	46.4	2	8.02	32.0 B	1	2.76				21
22	45.8	2	7.91	28.0 B	1	2.42				22
23	45.0	2	7.78	27.5 B	1	2.38				23
24	46.5	2	8.04	36.0 B	1	3.11				24
25	50.7	2 S	8.76	46.0 B	2	7.95				25
26	50.1	2	8.66	57.0 B	2	9.85				26
27	46.4	2	8.02	66.0 B	2	11.4				27
28	44.5	1	3.84	95.0 B	2	16.4				28
29	44.4	2	7.67	100 B	3	25.9				29
30	44.6	1	3.85	74.0 B	3	19.2				30
31	43.8	1	3.78							31
TOTAL	2 048.8		318.43	1 420.3		200.66				TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BO001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002 .004 .008 .016 .031 .062 .125 .250 .500 1.00 2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
APR 14	18:15	8.0	390	MID	D49	44					
APR 16	10:30	6.0	403	MID	D49	32					
APR 16	10:30	6.0	403	MID	D49	28					
APR 16	17:30	6.0	476	MID	D49	36					
APR 17	17:30	5.0	506	MID	D49	28					
APR 18	06:30	2.0	288	MID	D49	28					
APR 18	16:45	4.0	502	MID	D49	25					
APR 19	08:15	6.0	500	MID	D49	13					
APR 19	12:10	8.0	351	MID	D49	11					
APR 19	17:00	5.0	446	MID	D49	10	38				
APR 20	08:00	4.0	437	MID	D49	8					
APR 20	17:00	5.0	433	MID	D49	8					
APR 21	08:10	3.0	438	MID	D49	8					
APR 21	16:20	6.0	418	MID	D49	8					
APR 22	08:05	5.0	446	MID	D49	6					
APR 22	12:45	6.0	442	MID	D49	7					
APR 23	10:15	2.0	739	MID	D49	31					
APR 23	15:15	3.0	722	MID	D49	28					
APR 24	08:05	2.0	728	MID	D49	22	32				
APR 24	16:00	3.0	747	MID	D49	30					
APR 25	08:20	3.0	747	MID	D49	17					
APR 25	13:15	4.0	828	MID	D49	11					
APR 26	08:00	3.0	824	MID	D49	8					
APR 26	16:30	5.0	773	MID	D49	8					
APR 27	08:15	4.0	780	MID	D49	8					
APR 27	16:25	4.0	785	MID	D49	6					
APR 28	06:25	4.0	755	MID	D49	3	30				
APR 28	18:00	8.0	717	MID	D49	6					
APR 29	06:30	7.0	663	MID	D49	7					
APR 29	10:34	7.0	598	MID	D49	7					
APR 29	18:45	8.0	556	MID	D49	6					
APR 30	06:05	4.0	505	MID	D49	3					
APR 30	17:45	9.0	483	MID	D49	3					
MAY 01	06:10	6.0	418	MID	D49	2					
MAY 02	06:30	8.0	382	MID	D49	2					
MAY 02	17:00	9.0	335	MID	D49	3					
MAY 03	09:00	6.0	336	MID	D49	3					
MAY 03	16:30	6.0	324	MID	D49	3					
MAY 04	12:00	4.0	287	MID	D49	3					
MAY 05	06:15	2.0	257	MID	D49	2					
MAY 05	17:30	5.0	243	MID	D49	5					
MAY 06	06:15	4.0	226	MID	D49	3					
MAY 07	09:20	10.0	205	MID	D49	2					
MAY 07	18:10	20.0	201	MID	D49	7					
MAY 08	10:00		186	MID	D49	4					
MAY 09	17:20	9.0	178	MID	D49	3					
MAY 10	10:15	9.0	157	MID	D49	3					
MAY 11	17:40	9.0	145	MID	D49	3					
MAY 12	18:00	8.0	133	MID	D49	4					
MAY 14	15:10	7.0	118	MID	D49	3					
MAY 16	17:10	10.0	101	MID	D49	1					
MAY 17	11:30	15.0	84.8	MID	D49	4					
MAY 18	11:30	17.0	84.3	MID	D49	5					
MAY 19	10:00	17.0	90.3	MID	D49	5					
MAY 20	16:30	10.0	84.1	MID	D49	4	41				
MAY 21	15:30	10.0	81.5	MID	D49	3					
MAY 23	15:15	11.0	107	MID	D49	7					
MAY 24	07:00	7.0	107	MID	D49	15					
MAY 26	15:15	12.0	107	MID	D49	4					
MAY 27	15:25	16.0	107	MID	D49	3					
MAY 28	20:15	12.0	107	MID	D49	3					
MAY 29	16:45	12.0	107	MID	D49	2					
MAY 30	16:15	15.0	149	MID	D49	2					
MAY 31	13:20	16.0	136	MID	D49	2	47				
JUN 01	18:05	13.0	133	MID	D49	2					
JUN 02	18:50	12.0	168	MID	D49	4					
JUN 03	17:20	11.0	188	MID	D49	4					
JUN 04	10:28	12.0	157	MID	D49	4					
JUN 10	16:15	17.0	134	MID	D49	5					
JUN 11	16:25	11.0	108	MID	D49	4					
JUN 12	16:25	11.0	91.8	MID	D49	3					
JUN 16	15:35	20.0	66.5	MID	D49	6					
JUN 21	09:45	18.0	51.0	MID	D49	20					
JUN 26	08:10	15.0	36.5	MID	D49	1					
JUN 30	17:40	20.0	45.5	MID	D49	3					
JUL 04	16:20	20.0	35.1	MID	D49	4	58				
JUL 08	16:20	22.0	32.8	MID	D49	6					
JUL 15	07:45	15.0	30.6	MID	D49	4					
JUL 25	09:45	23.0	28.5	MID	D49	2					
JUL 28	09:10	20.0	84.0	MID	D49	5					
AUG 01	10:40	20.0	49.5	MID	D49	4					
AUG 09	14:25	20.0	77.3	MID	D49	8	84				
AUG 15	12:20	20.0	46.4	MID	D49	2					
AUG 24	10:00	16.0	43.0	MID	D49	3					
AUG 25	10:00	16.0	52.3	MID	D49	3					
SEP 03	15:00	17.0	37.8	MID	D49	6					
SEP 14	12:15	15.0	102	MID	D49	9					
SEP 21	12:30	12.0	55.8	MID	D49	1					
OCT 01	19:00	12.0	128	MID	D49	3					
OCT 03	09:38	10.0	114	MID	D49	3					
OCT 25	08:50	4.0	51.4	MID	D49	2					
NOV 02	10:15	5.0	47.4	MID	D49	1					
NOV 03	11:15	5.0	44.6	MID	D49	1					

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1986

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BO001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY APR-DEC MEAN LOAD (TONNES)	SUMMARY APR-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY APR-DEC STANDARD ERROR OF MEAN %
1975	---PCCP-----	MANUAL	27 MAY 08	2 JUL 11	1 830 MAY 08	18 800	---	---	---
1984	---CCCCCCCCC	MANUAL	19 NOV 14	1 MAY 21 *	2 380 JUN 02 *	30 700 *	112	112	---
1985	CCCCCCCCCCCC	MANUAL	41 NOV 07	1 FEB 11	439 NOV 05	10 100	35.1	73.8	52.2
1988	---CCCCCCCC-	MANUAL	44 APR 14 *	1 MAY 16	1 910 APR 24	21 900	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NEWFOUNDLAND

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 01YJ001

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 48 34 21 N LONG 55 21 48 W
DRAINAGE AREA: 840 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 5 030 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	21.0 B	8	14.5	27.0 B	10	23.3	5.60 B	6	2.38	1
2	18.5 B	8	13.0	23.0 B	10	19.9	6.40 B	5	2.78	2
3	16.5 B	8	11.4	20.5 B	9	15.8	6.15 B	6	2.13	3
4	15.0 B	8	10.4	18.0 B	8	12.6	5.90 B	6	2.04	4
5	13.8 B	7	8.35	15.4 B	8	11.3	5.70 B	6	1.97	5
6	12.5 B	7	7.58	15.0 B	8	10.4	5.55 B	6	1.92	6
7	11.3 B	6	5.85	13.5 B	8	9.54	6.35 B	6	2.31	7
8	10.5 B	6	4.54	12.8 B	7	7.74	6.10 B	6	2.28	8
9	9.80 B	6	3.32	11.5 B	7	7.20	5.80 B	6	1.73	9
10	8.90 B	6	3.04	11.0 B	7	8.65	4.90 B	6	1.59	10
11	8.00 B	5	2.67	10.3 B	8	5.36	4.75 B	6	1.66	11
12	5.60 B	6	3.38	9.60 B	6	4.93	4.60 B	6	1.99	12
13	13.0 B	5	6.83	9.10 B	6	4.72	4.45 B	6	1.54	13
14	32.0 B	10 S	18.0	8.60 B	6	4.46	4.35 B	6	1.50	14
15	35.0 B	13	39.3	8.30 B	5	3.54	8.21 B	6	1.65	15
16	33.6 B	10	29.0	7.80 B	6	4.04	8.10 B	6	1.62	16
17	31.0 B	6	21.4	7.50 B	5	3.24	6.00 B	3	1.04	17
18	28.5 B	7	17.3	7.10 B	5	3.07	3.85 B	5	1.71	18
19	25.0 B	8	17.3	6.80 B	5	2.94	6.60 B	10	2.97	19
20	35.0 B	17	51.4	6.60 B	4	2.24	7.00 B	8	3.63	20
21	60.0 B	18	93.3	6.40 B	4	2.21	8.40 B	5	4.08	21
22	48.0 B	10	41.5	6.10 B	4	2.11	8.00 B	4	3.11	22
23	32.0 B	10	27.8	5.90 B	4	2.04	6.60 B	4	2.57	23
24	28.0 B	10	24.2	5.70 B	4	1.97	6.30 B	4	2.57	24
25	24.2 B	10	20.9	5.82 B	4	2.01	7.95 B	4	3.78	25
26	21.6 B	10	18.8	6.20 B	4	2.14	7.85 B	4	3.66	26
27	19.5 B	10	16.8	6.60 B	4 5	2.38	7.80 B	4	3.76	27
28	40.0 B	24	83.9	7.00 B	4	2.42	8.40 B	4	3.90	28
29	124	23	246				9.20 B	4	3.16	29
30	83.5	13	71.3				11.0 B	4	3.80	30
31	32.0 B	10	27.5				15.5 B	4	5.36	31
TOTAL	871.80		958.48	300.72		160.12	208.55		78.90	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	33.0 B	10	27.6	54.9	3 S	14.2	3.46	3 S	2.45	1
2	28.5 B	5	13.3	50.3	4 S	17.4	30.3	10 S	28.2	2
3	26.0 B	5	10.8	56.5	4 S	18.6	55.3	10	47.7	3
4	31.5 B	5	8.39	42.4	5 S	16.3	41.5	3 S	10.6	4
5	18.5 B	5	6.43	33.9	4 S	11.7	28.6	3	4.96	5
6	17.5 B	4	6.06	28.5	5	12.3	24.1	3	6.35	6
7	18.0 B	4	5.18	25.9	6 S	13.4	21.5	3	3.72	7
8	13.4 B	4	4.63	24.1	4 S	8.32	21.3	3	3.66	8
9	12.5 B	4	4.42	20.7	4 S	7.18	48.4	3	8.02	9
10	16.0	5	6.91	19.7	7 S	11.9	51.0	3 S	8.61	10
11	80.6	9	28.5	18.3	6 S	8.34	45.6	9 S	24.2	11
12	99.4	11	56.6	17.8	4 S	6.18	34.6	3	9.02	12
13	84.4	16	117	17.3	6 S	7.47	27.1	3	7.02	13
14	86.3	17	127	16.2	8 S	8.40	23.7	4	8.18	14
15	110	16	171	15.4	6 S	6.85	21.4	3	5.55	15
16	127	19 S	206	15.0	4 S	5.18	19.2	4	6.84	16
17	142	25	307	14.0	5 S	6.05	17.6	5	7.89	17
18	113	19	186	13.1	5 S	5.86	18.6	4	8.50	18
19	80.0	14	108	12.5	6 S	6.48	18.4	5 S	7.08	19
20	78.0	7 S	47.8	14.2	7 S	8.58	15.3	4	5.39	20
21	77.2	3 S	30.0	14.3	5	5.15	14.1	4	4.67	21
22	85.5	4 S	33.4	14.0	8 S	7.35	13.0	3	3.35	22
23	124	14 S	150	17.9	6 S	9.26	12.1	3	3.14	23
24	108	13 S	121	14.3	6 S	6.84	11.5	3	2.98	24
25	113	13 S	136	12.4	6 S	6.43	11.2	3	2.90	26
26	117	8 S	80.9	11.8	4 S	4.01	10.9	3	2.83	26
27	101	6 S	43.6	10.8	4 S	3.88	10.3	2	1.78	27
28	84.5	11 S	80.2	10.0	4 S	3.46	9.81	2	1.70	28
29	80.2	7 S	46.5	9.83	6 S	5.06	9.03	2 S	1.66	29
30	63.7	6 S	32.0	9.46	6 S	4.85	8.18	2 S	1.59	30
31				9.27	3 S	2.40				31
TOTAL	2 107.3		2 190.10	845.33		289.79	881.93		235.39	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

SUSPENDED SEDIMENT FOR 1986

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	9.19	3	2.38	9.81	7	3.39	9.13	4	3.16	1
2	9.04	4	3.13	9.45	6	2.63	8.37	5	3.62	2
3	8.80	4 S	2.97	8.33	7	3.16	7.89	4	2.73	3
4	8.45	4	2.92	9.01	6	2.80	6.96	4	2.41	4
5	11.9	5	5.14	9.30	5 S	2.29	8.78	5	2.92	5
6	10.4	8	9.95	9.05	5	2.18	8.56	4 S	2.27	6
7	10.8	8	7.33	9.33	5	2.30	8.31	4	2.18	7
8	9.83	8	6.85	8.94	5	2.83	5.99	4	2.07	8
9	9.31	8	6.46	8.93	8	6.17	5.93	5	2.56	9
10	9.01	9	7.01	12.2	8	8.43	5.67	4	1.96	10
11	8.98	9	6.68	12.7	9	9.88	5.49	3	1.42	11
12	8.30	9	6.45	10.6	5 S	4.49	5.88	2 S	1.02	12
13	8.05	9 S	6.27	11.6	5	4.92	11.4	8	7.88	13
14	7.70	9	5.99	9.18	6	4.76	11.8	8	8.16	14
15	7.56	9	5.84	8.10	6	4.20	8.86	5	3.83	15
16	10.6	9	8.24	7.60	6	3.94	9.44	5	4.08	16
17	10.4	9	8.08	7.28	6	3.77	10.0	6	5.18	17
18	8.99	9	6.66	6.65	6	3.45	9.06	5	3.91	18
19	7.81	8	5.26	8.62	6	3.38	7.87	4	2.75	19
20	7.48	8 S	5.18	8.90	6 S	3.53	7.22	4	2.50	20
21	7.90	7	4.94	7.33	7	4.37	8.93	5	2.40	21
22	7.23	7	4.37	8.62	5	2.77	8.50	3 S	1.68	22
23	7.02	7	4.35	8.39	5	3.31	8.40	2	1.11	23
24	8.60	8	4.70	8.39	5	2.78	8.23	3	1.81	24
25	8.53	7	3.95	8.34	5	2.70	8.14	3	1.89	25
26	8.37	8	6.40	7.55	4	2.81	8.24	3	1.82	26
27	8.36	7 S	3.85	10.3	4 S	3.86	18.0	8	14.0	27
28	8.93	7	3.00	19.8	14	23.7	13.2	7	7.86	28
29	8.83	7	3.41	15.8	8	10.9	10.1	6	5.24	29
30	8.06	7	3.87	11.4	4 S	3.84	8.24	4 S	3.19	30
31	8.62	8	4.02	10.2	5	4.45				31
TOTAL	266.34		163.35	266.69		147.57	245.67		107.03	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	10.0	4	3.46	11.5	3	2.98	19.1	3	4.85	1
2	11.8	5	5.10	18.0	6	7.78	17.6	3	4.58	2
3	10.0	5	4.33	23.1	8 S	15.3	15.8	3	4.12	3
4	8.97	4	3.10	16.7	5	6.35	20.5	2 S	3.54	4
5	21.0	9	16.3	14.7	4	5.08	24.6	3	6.36	5
6	21.3	8	14.7	13.6	3	3.50	20.6	3	5.34	6
7	14.6	6	8.39	12.5	2 S	2.16	18.7	3	4.85	7
8	12.7	6	8.58	11.6	2	2.06	17.5 8	3	4.54	8
9	11.8	6	8.12	18.9	7	9.43	16.5 8	3	4.26	9
10	12.8	9	9.97	80.1	24	125	15.5 8	3	4.02	10
11	11.6	9 S	9.01	27.3	14	32.9	14.6 8	3	3.84	11
12	10.6	9	8.58	20.2	11	19.2	14.0 8	3	3.63	12
13	10.2	9	8.41	18.8 8	10 S	14.8	13.3 8	2	2.30	13
14	8.74	4	3.37	18.5 8	8	12.1	12.6 8	2	2.16	14
15	34.6	17	50.8	18.5 8	9	11.3	12.1 8	4	4.18	15
16	33.2	9 S	10.0	13.4 8	9	10.4	11.5 8	3	2.98	16
17	18.8	3	2.90	12.8 8	8	8.85	11.0 8	3	2.85	17
18	14.3	3	3.91	11.8 8	8	8.15	10.4 8	3	1.80	18
19	12.8	3	3.37	11.3 8	7	6.77	9.90 8	3	2.57	19
20	11.8	3	3.01	10.9 8	7	6.35	9.45 8	2	1.63	20
21	10.9	3	2.83	10.3 8	6	5.34	9.00 8	3	2.33	21
22	10.4	3	1.80	9.70 8	7	5.87	8.80 8	3	2.23	22
23	11.2	3	2.90	9.30 8	7	5.62	8.30 8	3	2.15	23
24	17.9	3 S	6.84	9.10 8	7	5.50	8.00 8	3	1.38	24
25	18.3	3	3.89	39.3	7	17.7	7.50 8	3	1.94	25
26	14.8	3	3.42	33.7	7 S	13.7	13.0 8	3	3.37	26
27	12.4	3	3.16	26.4	7 S	14.8	18.5 8	3	4.80	27
28	11.5	3	1.88	24.4	8	23.5	17.8 8	2	3.08	28
29	11.5	3	3.00	23.8	4	8.15	15.8 8	2	2.90	29
30	11.6	3	3.00	20.8	4	7.15	15.0 8	2	2.76	30
31	14.0	3	3.93				15.1 8	2	2.81	31
TOTAL	433.11		191.85	939.10		417.85	444.15		104.09	TOTAL

8 - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 14	11:50	0.0	22.0	B	15.0	DH48	10															
FEB 27	13:15	0.0	19.5	B	15.0	DH48	22															
APR 16	12:30	2.0	141		25.0	D49	17	87														
APR 20	16:30	3.5	75.5		25.0	D49	6															
APR 21	19:30	4.5	86.5		25.0	D49	3															
APR 22	16:00	5.0	108		25.0	D49	4															
APR 23	17:30	3.0	89.5		25.0	D49	10															
APR 24	17:30	5.0	113		25.0	D49	17															
APR 25	17:50	5.5	119		25.0	D49	10															
APR 26	17:00	6.5	127		25.0	D49	10															
APR 27	15:15	5.0	81.4		25.0	D49	4															
APR 28	13:45	8.5	80.8		25.0	D49	15															
APR 29	17:10	8.5	73.8		25.0	D49	4	83														
APR 30	18:10	7.5	58.8		25.0	D49	4															
MAY 01	18:22	7.5	50.7		25.0	D49	3															
MAY 02	18:15	8.0	45.8		25.0	D49	8															
MAY 03	17:00	5.5	58.6		25.0	D49	3															
MAY 04	18:30	5.0	38.8		25.0	D49	8															
MAY 05	18:30	7.5	31.7		25.0	D49	3															
MAY 07	17:30	9.0	24.9		25.0	D49	7															
MAY 07	18:25	10.0	24.6		25.0	D49	7															
MAY 08	18:30	9.0	23.0		25.0	D49	3															
MAY 09	18:00	11.0	20.4		25.0	D49	8															
MAY 10	09:45	9.5	20.3		25.0	D49	6															
MAY 11	09:55	5.5	19.6		25.0	D49	7															
MAY 12	17:40	12.0	17.5		25.0	D49	1															
MAY 13	17:15	13.5	16.5		25.0	D49	7															
MAY 14	16:35	13.0	15.6		25.0	D49	8															
MAY 15	17:20	14.0	14.9		25.0	D49	8															
MAY 16	18:30	14.5	14.1		25.0	D49	8															
MAY 17	18:55	15.5	13.3		25.0	D49	8															
MAY 18	10:00	9.0	13.2		25.0	D49	8															
MAY 18	13:50	12.0	12.7		25.0	D49	7	97														
MAY 20	18:00	8.5	14.8		25.0	D49	7															
MAY 22	13:35	9.0	14.3		25.0	D49	6															
MAY 23	18:35	14.5	17.5		25.0	D49	6															
MAY 24	11:40	11.0	14.4		25.0	D49	4															
MAY 25	11:55	11.0	12.3		25.0	D49	7															
MAY 26	17:50	12.0	11.5		25.0	D49	3															
MAY 27	18:15	11.0	10.4		25.0	D49	5															
MAY 28	17:10	11.0	9.92		25.0	D49	4															
MAY 29	17:40	11.0	9.67		25.0	D49	8															
MAY 30	20:40	8.0	9.51		25.0	D49	6															
MAY 31	12:05	8.0	9.18		25.0	D49	1															
JUN 01	20:10	10.0	9.51		25.0	D49	4															
JUN 02	17:15	9.0	43.1		25.0	D49	10															
JUN 04	17:20	10.5	36.8		25.0	D49	1															
JUN 10	17:05	9.5	50.0		25.0	D49	3															
JUN 11	20:05	12.0	51.4		25.0	D49	5															
JUN 19	17:20	14.5	16.3		25.0	D49	5															
JUN 29	11:55	12.0	9.51		25.0	D49	5															
JUN 30	10:15		9.55		15.0	DH48	2															
JUL 03	18:35	15.5	8.50		25.0	D49	8	120														
JUL 13	13:00	16.5	7.94		25.0	D49	10															
JUL 20	15:45	18.5	7.21		15.0	DH48	8															
JUL 27	13:30	16.5	8.12		15.0	DH48	7															
AUG 05	18:15	22.0	4.88		15.0	DH48	5															
AUG 12	19:00	17.0	11.3		15.0	DH48	3															
AUG 20	19:45	23.0	7.38		15.0	DH48	5	108														
AUG 27	16:30	17.0	11.4		15.0	DH48	3															
AUG 30	19:40	13.5	14.9		15.0	DH48	3															
SEP 08	17:30	18.5	26.4		15.0	DH48	4															
SEP 12	13:30	12.0	5.88		15.0	DH48	1															
SEP 22	18:35	13.0	8.50		15.0	DH48	2															
SEP 30	11:15	7.0	8.24		15.0	DH48	3	112														
OCT 11	11:30	5.0	11.6		15.0	DH48	5															
OCT 16	18:10	8.0	23.2		15.0	DH48	1															
OCT 24	14:30	5.5	17.9		15.0	DH48	1															
NOV 03	16:00	4.5	23.1		15.0	DH48	8															
NOV 07	11:15	3.0	12.5	H	15.0	DH48	2															
NOV 13	14:20	3.5	16.8	B	15.0	DH48	11															
NOV 26	11:10	1.0	22.7		15.0	DH48	7															

NOTE SINGLE VERTICAL LOCATED AT 25.0 METRES FOR 1986

DISCHARGE SYMBOL(S): B - ICE CONDITIONS H - DAILY MEAN

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	-PPP--PCCCC	MANUAL	12	APR 25	1	JUL 10 *	87.4	NOV 11	1 030	---	---	---
1980	CCCCCCCCCCCC	MANUAL	18	OCT 13	1	FEB 25	341	NOV 05	3 830	10.5	10.5	---
1981	CCCCCCCCCCCC	MANUAL	27	JUL 28	1	JAN 02	270	DEC 04	4 900	13.4	12.0	12.1
1982	CCCCCCCCCCCC	MANUAL	26	NOV 05	1	MAY 19	531	APR 30	7 830	21.4	16.1	21.8
1983	CCCCCCCCCCCC	MANUAL	28	SEP 23	1	JAN 10	382	JAN 13	5 450	25.9	17.8	19.9
1984	CCCCCCCCCCCC	MANUAL	83	JUL 17	1	NOV 12	238	MAY 18	9 870 *	26.4	19.5	16.8
1985	CCCCCCCCCCCC	MANUAL	102	JUN 07 *	1	MAR 19	1 880	JUN 07 *	9 240	25.3	20.9	13.7
1986	CCCCCCCCCCCC	MANUAL	32	FEB 27	1	MAY 12	387	APR 19	6 030	13.6	19.5	13.2

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 022A002

SUSPENDED SEDIMENT FOR 1988

LOCATION: LAT 48 05 33 N LONG 58 47 04 W
DRAINAGE AREA: 72.0 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 1 700 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	2.78	10 S	2.41	1.89 B	34	5.55	0.630 B	5	0.27	1
2	2.38 B	9	1.84	1.75 B	27	4.08	0.600 B	6	0.26	2
3	2.10 B	9	1.63	1.80 B	24	3.32	0.570 B	7	0.24	3
4	2.03 B	8	1.62	1.45 B	24	3.03	0.540 B	10 S	0.47	4
5	2.25 B	7	1.36	1.38 B	23 S	2.70	0.520 B	7	0.31	5
6	2.00 B	8	1.04	1.28 B	18	2.10	0.495 B	8	0.34	6
7	1.80 B	6	0.93	1.19 B	16	1.65	0.475 B	8	0.33	7
8	1.65 B	5 S	0.86	1.11 B	14	1.34	0.460 B	8 S	0.32	8
9	1.50 B	6	0.78	1.05 B	12	1.09	0.440 B	9	0.34	9
10	1.38 B	6	0.72	0.990 B	10	0.85	0.425 B	9	0.33	10
11	1.27 B	6	0.66	0.930 B	9 S	0.72	0.410 B	10	0.35	11
12	1.18 B	6	0.61	0.880 B	9 S	0.68	0.395 B	11 S	0.38	12
13	1.10 B	6	0.57	0.840 B	9	0.65	0.385 B	8	0.30	13
14	8.00 B	13	8.85	0.780 B	8	0.55	0.375 B	9	0.28	14
15	11.0	12 S	11.4	0.780 B	8	0.53	0.380 B	9	0.28	15
16	5.19	6	3.21	0.715 B	8	0.48	0.350 B	8 S	0.27	16
17	4.59	5	1.98	0.680 B	8	0.47	0.340 B	9	0.26	17
18	3.36	4	1.17	0.650 B	8	0.51	0.330 B	8	0.26	18
19	2.62	4	0.87	0.620 B	8 S	0.43	0.325 B	8 S	0.22	19
20	8.17	15	8.06	0.590 B	8	0.41	0.800 B	8	0.65	20
21	23.6	25 S	51.0	0.560 B	7	0.34	2.00 B	8	1.38	21
22	10.7	7	8.47	0.535 B	6	0.23	2.50 B	9	1.84	22
23	4.83	3	0.85	0.515 B	5	0.22	0.900 B	9 S	0.70	23
24	3.20	3	0.83	0.495 B	4	0.17	0.890 B	9	0.64	24
25	2.84	5	1.37	0.478 B	4 S	0.17	0.800 B	8	0.55	25
26	3.88	19	5.89	0.560 B	4	0.20	0.660 B	8	0.61	26
27	8.20	88	69.4	0.740 B	4	0.24	0.780 B	8	0.64	27
28	73.6	155 S	892	0.680 B	4	0.23	0.900 B	7	0.64	28
29	18.3	61	152				1.05 B	6	0.54	29
30	4.61	55	33.5				0.932	8	0.66	30
31	2.82	44	9.86				1.92	8	1.33	31
TOTAL	320.85		1 384.98	35.889		33.98	32.577		15.82	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	2.91	6 S	1.51	1.87	1 S	0.15	0.487	12 S	0.52	1
2	3.26	6	2.35	1.63	1 S	0.16	1.78	16 S	2.74	2
3	4.47	9	3.48	1.89	1 S	0.16	8.61	16 S	9.55	3
4	2.78	6	1.20	1.80	2 S	0.26	5.16	4 S	1.78	4
5	1.78	4	0.62	1.28	2 S	0.22	2.88	3	0.69	5
6	0.960 B	3 S	0.24	1.01	2 S	0.17	1.61	3	0.42	6
7	0.800 B	3	0.21	0.911	5 S	0.38	1.11	3	0.29	7
8	0.720 B	3	0.19	0.887	6 S	0.48	0.928	3	0.24	8
9	0.690 B	3	0.16	0.812	4 S	0.28	2.14	11	2.03	9
10	7.39	38	15.6	0.770	3 S	0.13	2.66	12	2.66	10
11	12.6	30	33.2	0.777	5 S	0.34	2.18	3 S	0.58	11
12	10.3	20	17.6	0.788	4 S	0.27	1.85	2	0.29	12
13	11.0	8 S	7.80	0.757	4 S	0.38	1.12	2	0.19	13
14	8.62	5 S	3.88	0.754	3 S	0.13	0.889	2	0.15	14
15	9.72	6 S	5.04	0.733	5 S	0.32	0.726	2	0.13	15
16	14.8	15 S	18.9	0.720	4 S	0.25	0.647	2	0.11	16
17	16.6	15 S	24.1	0.679	4 S	0.23	0.804	2	0.14	17
18	5.04	5 S	2.07	0.658	3 S	0.17	1.02	2 S	0.18	18
19	3.86	3 S	0.77	0.650	4 S	0.23	0.820	3	0.21	19
20	2.64	4 S	0.91	0.884	4 S	0.33	0.702	3	0.18	20
21	4.44	3 S	1.15	0.840	5 S	0.38	0.837	3	0.17	21
22	8.63	4 S	2.85	0.773	6 S	0.53	0.583	2	0.10	22
23	10.7	5 S	5.85	1.31	4 S	0.42	0.583	2	0.10	23
24	9.73	5 S	4.20	0.835	3 S	0.24	0.541	3	0.09	24
25	9.84	2 S	1.70	0.748	2 S	0.13	0.851	2 S	0.10	25
26	9.57	2 S	1.85	0.882	6 S	0.34	0.509	3 S	0.13	26
27	8.99	2 S	1.04	0.598	6 S	0.31	0.471	3	0.12	27
28	3.66	2 S	0.63	0.630	6 S	0.37	0.488	3	0.12	28
29	2.82	2 S	0.50	0.604	6 S	0.38	0.489	3	0.13	29
30	2.34	1 S	0.30	0.608	6 S	0.39	0.508	3	0.13	30
31				0.604	6 S	0.39				31
TOTAL	190.880		180.83	27.830		8.78	41.161		24.33	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO 02ZA002

SUSPENDED SEDIMENT FOR 1988

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.526	3	0.16	0.411	8	0.28	0.459	10	0.40	1
2	0.512	3	0.13	0.400	8	0.28	0.425	10	0.37	2
3	0.491	5 S	0.21	0.388	8	0.26	0.414	11 S	0.39	3
4	0.529	8	0.37	0.350	7	0.21	0.400	11	0.38	4
5	0.878	16	1.31	0.346	7	0.21	0.381	10	0.31	5
6	0.925	18	1.44	0.327	7 S	0.20	0.347	10	0.30	6
7	0.749	16	1.04	0.313	8	0.16	0.348	11	0.33	7
8	0.650	14	0.79	0.315	8	0.16	0.338	11	0.32	8
9	0.594	12 S	0.58	0.312	8	0.13	0.324	11	0.31	9
10	0.510	10	0.44	0.382	8	0.18	0.301	11 S	0.29	10
11	0.501	8	0.35	0.426	8	0.23	0.289	9	0.22	11
12	0.529	7	0.32	0.414	7	0.25	0.329	8	0.28	12
13	0.521	6	0.27	0.382	8 S	0.26	0.475	7	0.28	13
14	0.470	5	0.20	0.337	7	0.20	0.498	5	0.22	14
15	0.586	6	0.31	0.319	7	0.19	0.463	5	0.20	15
16	3.06	16 S	4.73	0.310	8	0.16	0.491	4	0.17	16
17	1.89	11	1.80	0.392	8	0.15	1.25	4 S	0.87	17
18	1.13	9	0.88	0.367	7	0.17	1.43	7	0.88	18
19	0.785	8	0.52	0.275	7	0.17	0.930	6	0.48	19
20	0.884	8	0.48	0.300	8 S	0.21	0.703	5	0.30	20
21	0.595	6	0.41	0.287	8	0.20	0.593	5	0.26	21
22	0.553	7	0.33	0.283	8	0.20	0.561	6	0.28	22
23	0.495	7 S	0.30	0.424	9	0.33	0.535	6	0.27	23
24	0.448	7	0.27	0.512	9	0.40	0.506	6 S	0.26	24
25	0.407	7	0.25	0.427	8	0.33	0.480	6	0.25	25
26	0.384	6	0.20	0.443	8	0.34	0.505	5	0.22	26
27	0.369	7	0.22	0.496	8 S	0.39	1.81	12	1.67	27
28	0.345	7	0.21	0.607	8	0.47	1.49	8	1.03	28
29	0.368	8	0.26	0.694	9	0.52	1.07	7	0.65	29
30	0.396	8 S	0.27	0.585	9	0.45	0.831	6	0.43	30
31	0.382	8	0.25	0.522	10	0.45				31
TOTAL	21.205		19.26	12.085		8.12	18.762		12.59	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.740	3 S	0.19	0.753	3	0.20	1.26	6	0.65	1
2	0.672	2	0.12	0.868	3	0.23	1.07	5	0.45	2
3	0.600	2	0.10	1.22	3	0.32	0.944	5 S	0.41	3
4	0.538	3	0.14	1.08	2 S	0.18	1.78	9	1.38	4
5	1.33	8	1.03	1.15	2	0.20	2.00	11	1.90	5
6	2.02	11	1.83	0.883	2	0.17	1.52	8	1.05	6
7	1.64	7	0.99	0.675	1 S	0.08	1.24	7	0.75	7
8	1.75	5 S	0.78	0.705	1	0.07	1.05 E	7	0.64	8
9	1.48	4	0.51	1.13	10	0.88	0.820 E	8	0.64	9
10	1.82	4	0.56	4.81	11	4.67	0.840 E	15 S	1.31	10
11	1.24	4	0.43	2.33	5	1.01	0.755 E	15	0.84	11
12	0.943	4	0.33	1.81	4	0.62	0.690 E	12	0.72	12
13	0.795	4	0.27	1.17	3 S	0.30	0.640 E	10	0.55	13
14	0.749	4	0.26	1.15	2	0.20	0.595 E	9	0.46	14
15	2.44	7 S	1.48	1.19	2	0.21	0.550 E	8	0.39	15
16	2.10	4	0.73	0.934	2	0.15	0.535 E	7	0.32	16
17	1.40	3	0.38	0.837	2	0.14	0.500 E	7	0.30	17
18	1.08	2	0.19	0.836	3	0.22	0.475 E	6	0.25	18
19	0.918	2	0.16	0.685	4	0.31	0.455 E	5	0.20	19
20	0.784	2	0.14	0.764 A	4 S	0.26	0.440 E	6	0.23	20
21	0.676	1	0.09	0.700 E	3	0.18	0.430 E	6	0.22	21
22	0.860	2 S	0.11	0.830 E	3	0.11	0.400 E	6	0.21	22
23	0.706	2	0.12	0.810 E	4	0.21	0.385 E	5	0.17	23
24	1.58	4	0.54	5.00 E	12	5.16	0.375 E	4	0.13	24
25	1.48	3	0.38	3.80 E	10	3.02	0.370 E	4	0.13	25
26	1.32	2	0.21	3.37 A	5 S	1.02	0.800 E	5	0.26	26
27	0.848	2	0.16	3.56	7	2.15	0.800 E	4	0.28	27
28	0.694	3	0.23	3.42	7	2.07	0.730 E	4	0.25	28
29	0.637	2 S	0.16	1.86	7	1.20	0.680 E	3	0.18	29
30	0.788	2	0.16	1.52	6	0.79	0.640 E	3	0.17	30
31	0.844	3	0.22				0.800 E	4	0.31	31
TOTAL	38.447		13.88	48.814		28.35	24.283		15.81	TOTAL

A - MANUAL GAUGE E - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 02ZA002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1988

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 01	15:05	0.0	3.28		8.0	DH48	10	102														
JAN 08	10:50	0.0	1.55	B	8.0	DH48	8															
JAN 15	11:35	0.0	11.0		8.0	DH48	9															
JAN 21	12:30	1.0	25.7		8.0	DH48	22															
JAN 21	12:45	1.0	25.0		8.0	DH48	13															
JAN 28	14:25	2.0	108		8.0	DH48	184															
FEB 05	10:40	0.0	1.36	B	8.0	DH48	24	288														
FEB 11	14:00	0.0	0.930	B	8.0	DH48	9															
FEB 12	15:15	0.0	0.880	B	8.0	DH48	10															
FEB 19	12:40	0.0	0.830	B	8.0	DH48	8															
FEB 25	10:30	0.0	0.478	B	8.0	DH48	3															
MAR 04	10:30	0.0	0.640	B	8.0	DH48	10															
MAR 12	11:45	0.0	0.395	B	8.0	DH48	11															
MAR 15	14:50	0.0	0.350	B	8.0	DH48	10															
MAR 19	12:15	0.0	0.325	B	8.0	DH48	11															
MAR 23	14:20	0.0	0.800	B	8.0	DH48	8															
APR 01	15:50	0.0	24.5		8.0	DH48	4															
APR 05	14:35	2.0	0.940	B	8.0	DH48	3															
APR 13	13:50	3.0	10.2		8.0	DH48	7															
APR 14	18:35	3.0	8.08		8.0	DH48	4															
APR 15	08:10	2.0	8.89		8.0	DH48	3															
APR 16	09:50	2.0	11.3		8.0	DH48	12															
APR 17	11:00	2.0	16.9		8.0	DH48	15	81														
APR 18	08:40	2.0	5.11		8.0	DH48	5															
APR 18	11:20	3.0	2.93		8.0	DH48	3															
APR 20	09:20	3.0	2.51		8.0	DH48	4															
APR 21	11:05	4.0	3.88		8.0	DH48	2															
APR 22	08:40	4.0	8.89		8.0	DH48	4															
APR 23	09:35	4.0	11.0		8.0	DH48	7															
APR 24	09:25	5.0	9.05		8.0	DH48	5															
APR 25	09:00	7.0	8.26		8.0	DH48	2	80														
APR 26	10:55	10.0	5.75		8.0	DH48	2															
APR 27	13:50	9.0	5.17		8.0	DH48	2															
APR 28	10:55	13.0	3.54		8.0	DH48	1															
APR 29	11:00	13.0	4.78		8.0	DH48	1															
APR 30	08:05	8.0	2.37		8.0	DH48	11															
MAY 01	11:35	8.0	1.78		8.0	DH48	1															
MAY 02	11:05	9.0	1.79		8.0	DH48	1															
MAY 03	10:35	8.0	1.82		8.0	DH48	1															
MAY 04	15:10	7.0	1.76		8.0	DH48	2															
MAY 05	09:35	4.0	1.25		8.0	DH48	2	100														
MAY 05	13:40	8.0	1.22		8.0	DH48	8															
MAY 06	09:50	4.0	1.06		8.0	DH48	1															
MAY 07	08:05	4.0	0.928		8.0	DH48	5															
MAY 08	08:05	5.0	0.920		8.0	DH48	6															
MAY 09	08:10	3.0	0.820		8.0	DH48	4															
MAY 10	10:35	7.0	0.802		8.0	DH48	2															
MAY 11	13:45	10.0	0.789		8.0	DH48	7															
MAY 12	10:05	7.0	0.815		8.0	DH48	3															
MAY 13	12:10	10.0	0.815		8.0	DH48	8															
MAY 14	09:10	8.0	0.782		8.0	DH48	1															
MAY 15	10:00	10.0	0.788		8.0	DH48	5															
MAY 16	09:05	10.0	0.885		8.0	DH48	3															
MAY 17	07:15	10.0	0.728		8.0	DH48	5															
MAY 18	12:05	12.0	0.875		8.0	DH48	3															
MAY 19	08:35	13.0	0.875		8.0	DH48	9															
MAY 20	13:15	11.0	0.888		8.0	DH48	4															
MAY 21	10:10	8.0	0.838		8.0	DH48	5															
MAY 22	10:25	9.0	0.838		8.0	DH48	10															
MAY 23	08:00	8.0	1.38		8.0	DH48	4															
MAY 24	09:15	10.0	0.835		8.0	DH48	4															
MAY 25	08:55	12.0	0.748		8.0	DH48	3															
MAY 26	18:45	15.0	0.682		8.0	DH48	7															
MAY 27	18:55	16.0	0.590		8.0	DH48	6															
MAY 28	13:50	15.0	0.530		8.0	DH48	9															
MAY 29	07:45	10.0	0.504		8.0	DH48	11															
MAY 30	15:40	10.0	0.508		8.0	DH48	17															
MAY 31	16:50	10.0	0.504		8.0	DH48	12															
JUN 01	16:05	15.0	0.497		8.0	DH48	13															
JUN 02	14:30	10.0	1.75		8.0	DH48	15															
JUN 03	16:50	8.0	8.91		8.0	DH48	10	71														
JUN 04	10:45	8.0	5.16		8.0	DH48	3															
JUN 11	10:00	9.0	2.16		8.0	DH48	2															
JUN 18	10:10	10.0	1.03		8.0	DH48	2															
JUN 25	13:20	15.0	0.551		8.0	DH48	10															
JUN 28	15:00	15.0	0.508		8.0	DH48	12															
JUL 03	08:00	12.0	0.491		8.0	DH48	5															
JUL 09	08:20	15.0	0.554		8.0	DH48	2															
JUL 16	10:15	12.0	2.04		8.0	DH48	6															
JUL 23	13:40	15.0	0.495		8.0	DH48	7															
JUL 30	11:10	15.0	0.394		8.0	DH48	9															
AUG 06	10:50	17.0	0.327		8.0	DH48	20															
AUG 13	08:55	16.0	0.382		8.0	DH48	15															
AUG 20	10:30	16.0	0.300		8.0	DH48	8															
AUG 27	11:15	15.0	0.498		8.0	DH48	9															
SEP 03	09:30	10.0	0.414		8.0	DH48	11															
SEP 10	10:20	10.0	0.301		8.0	DH48	16															
SEP 10	15:00	10.0	0.301		8.0	DH48	14															
SEP 17	10:40	9.0	1.26		8.0	DH48	7															
SEP 24	11:10	7.0	0.508		8.0	DH48	6															
OCT 01	17:05	10.0	0.740		8.0	DH48	2															
OCT 08	14:35	8.5	1.75		8.0	DH48	4															
OCT 15	14:00	11.0	2.44		8.0	DH48	6															
OCT 22	10:25	8.0	0.840		8.0	DH48	1															
OCT 29	15:10	8.0	0.837		8.0	DH48	2															
NOV 04	12:50	4.0	1.08		8.0	DH48	2															
NOV 07	08:30	2.0	0.875		8.0	DH48	1															
NOV 13	15:40	2.0	1.17		8.0	DH48	2															
NOV 20	09:40	0.0	0.754	A	8.0	DH48	4															
NOV 26	10:45	0.0	2.37	A	8.0	DH48	5															
DEC 03	09:15	0.0	0.944		8.0	DH48	5															
DEC 10	14:45	0.0	0.840	B	8.0	DH48	20															

NOTE : SINGLE VERTICAL LOCATED AT 8.0 METRES FOR 1988

DISCHARGE SYMBOL(S): A - MANUAL GAUGE B - ICE CONDITIONS

NEWFOUNDLAND

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 022A002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1981	-------PPPPP	MANUAL	41	DEC 15	2	AUG 20	---	---	---	---	---	---
1982	CCCCCCCCCCCC	MANUAL	40	APR 30	1	FEB 11 *	210	APR 30	1 130	3.09	3.08	---
1983	CCCCCCCCCCCC	MANUAL	58	JAN 13	1	MAY 18	245	JAN 13	1 920 *	5.25	4.17	25.9
1984	CCCCCCCCCCCC	MANUAL	51	APR 07	1	APR 25	82.0	FEB 05	848	2.59	3.64	22.4
1985	CCCCCCCCCCCC	MANUAL	50	DEC 25	1	MAY 01	59.1	MAY 15	821	2.25	3.30	20.4
1986	CCCCCCCCCCCC	MANUAL	184	JAN 28 *	1	APR 28	892	JAN 28 *	1 700	4.66	3.97	18.5

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

SUSPENDED SEDIMENT FOR 1986

LOCATION: LAT 50 55 44 N LONG 56 06 44 W
DRAINAGE AREA 200 km²
TYPE OF FLOW NATURAL
TYPE OF GAUGE RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 448 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	1.78 B	11	1.69	3.18 B	8	2.18	0.850 B	3	0.22	1
2	1.68 B	11	1.60	2.98 B	7	1.80	0.820 B	3	0.21	2
3	1.58 B	11	1.50	2.79 B	7	1.69	0.790 B	3	0.20	3
4	1.49 B	11	1.42	2.60 B	7	1.57	0.760 B	3	0.20	4
5	1.41 B	10	1.22	2.49 B	7	1.51	0.740 B	3	0.19	5
6	1.33 B	10	1.15	2.36 B	7	1.42	0.701 B	3	0.18	6
7	1.27 B	10	1.10	2.20 B	7	1.33	0.690 B	3	0.18	7
8	1.20 B	9	0.93	2.10 B	7	1.27	0.670 B	3	0.17	8
9	1.14 B	8	0.78	1.99 B	6	1.03	0.650 B	3	0.17	9
10	1.09 B	7	0.66	1.89 B	5	0.98	0.630 B	3	0.16	10
11	1.03 B	5	0.44	1.79 B	6	0.93	0.610 B	3	0.15	11
12	1.00 B	4	0.35	1.70 B	6	0.88	0.590 B	2	0.10	12
13	1.21 B	4	0.42	1.62 B	6	0.84	0.575 B	2	0.10	13
14	1.88 B	3	0.44	1.55 B	6	0.80	0.580 B	2	0.10	14
15	1.55 B	3	0.40	1.48 B	5	0.84	0.545 B	2	0.09	15
16	1.45 B	3	0.38	1.41 B	5	0.61	0.530 B	2	0.09	16
17	1.37 B	3	0.36	1.34 B	5	0.58	0.519 B	2	0.09	17
18	1.28 B	3	0.33	1.29 B	4	0.45	0.503 B	2	0.09	18
19	1.21 B	3	0.31	1.23 B	4 S	0.43	0.495 B	2	0.09	19
20	1.14 B	3	0.30	1.19 B	4	0.41	0.590 B	5	0.25	20
21	1.09 B	4	0.38	1.13 B	4	0.38	0.735 B	6	0.38	21
22	1.03 B	4	0.38	1.10 B	4	0.38	0.700 B	5	0.30	22
23	0.960 B	4	0.34	1.04 B	4	0.38	0.670 B	5	0.29	23
24	0.938 B	4	0.32	1.00 B	4	0.35	0.645 B	4	0.22	24
25	0.880 B	4	0.31	0.950 B	4	0.33	0.620 B	3	0.16	25
26	0.859 B	4	0.30	0.930 B	4	0.32	0.595 B	2 S	0.10	26
27	0.820 B	4	0.28	0.898 B	4	0.31	0.580 B	2	0.10	27
28	1.45 B	4	0.50	0.870 B	4	0.30	0.559 B	2	0.10	28
29	2.10 B	4	0.73				0.535 B	2	0.09	29
30	3.08 B	4	1.06				0.510 B	3	0.13	30
31	3.30 B	7	2.00				0.500 B	5	0.22	31
TOTAL	63.437		22.37	47.059		24.05	19.667		5.13	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	0.920 B	8	0.64	25.9	3 S	6.71				1
2	1.70 B	8	1.32	24.3	2 S	4.20	3.62	2	0.66	2
3	3.50 B	8	2.42	22.7	5 S	9.61	3.80	2	0.68	3
4	7.00 B	7	4.23	22.1	2 S	3.82	4.67	3	1.21	4
5	14.0 B	7	8.47	21.4	1 S	1.85	7.59	3 S	1.97	5
6	13.8 B	5	7.00	19.9	1 S	1.72	11.6	2 S	2.00	6
7	12.5 B	5	5.40	17.5	1 S	1.51	14.2	1 S	1.23	7
8	11.0 B	5	4.75	15.8	1 S	1.37	14.6	1 S	1.28	8
9	10.0 B	4	3.46	14.4	2 S	2.48	13.7	1 S	1.18	9
10	9.25 B	3	2.40	13.1	3 S	3.40	13.2	2	2.28	10
11	15.0 B	4	5.18	11.5	3 S	2.88	12.2	3	3.16	11
12	23.0 B	11	21.9	10.3	2 S	1.78	11.7	4	4.04	12
13	36.0 B	15	48.7	9.43	1 S	0.81	11.9	5 S	5.14	13
14	48.0	7 S	29.6	8.14	1 S	0.78	11.4	4	3.94	14
15	48.7	4 S	16.8	8.45	1 S	0.82	10.5	4	3.63	15
16	47.3	4 S	16.3	10.5	1 S	0.81	9.58	3	2.48	16
17	46.4	3 S	11.6	11.7	5 S	5.05	6.41	2	1.46	17
18	43.1	2 S	7.48	12.1	2 S	2.09	7.44	2	1.29	18
19	38.1	2 S	6.58	12.1	3 S	3.14	6.65	1 S	0.57	19
20	31.6	2 S	5.46	11.8	4 S	4.01	5.86	2 S	0.98	20
21	28.5	2 S	4.61	10.5	5 S	4.58	4.84	2	0.84	21
22	24.3	2 S	4.20	9.59	5 S	4.14	4.24	2	0.73	22
23	26.0	1 S	2.16	8.83	3 S	2.29	3.88	2	0.64	23
24	28.2	1 S	2.44	7.98	2 S	1.38	3.18	2	0.55	24
25	31.2	2 S	5.35	7.07	1 S	0.81	2.78	2	0.48	25
26	32.1	1 S	2.77	6.21	1 S	0.54	2.48	2	0.43	26
27	32.8	3 S	8.63	5.48	1 S	0.47	2.14	2	0.37	27
28	32.3	2 S	5.68	4.97	1	0.43	1.90	2	0.33	28
29	31.1	1 S	2.85	4.56	1	0.39	1.63	2	0.28	29
30	28.5	4 S	9.85	4.27	2	0.74	1.44	2	0.21	30
31				4.02	2 S	0.69	1.28	2	0.22	31
TOTAL	751.870		355.68	378.46		75.52	212.21		44.25	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

SUSPENDED SEDIMENT FOR 1986

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	1.15	2	0.20	0.370	1	0.03	0.288	2	0.05	1
2	0.979	2	0.17	0.370	1	0.03	0.285	3	0.08	2
3	0.870	2	0.15	0.380	2	0.07	0.231	2	0.04	3
4	0.798	2	0.14	0.410	2	0.07	0.246	2	0.04	4
5	0.799	1	0.07	0.415	2	0.07	0.237	2	0.04	5
6	0.727	1	0.06	0.451	2	0.08	0.230	1	0.02	6
7	0.684	1	0.06	0.434	2	0.07	0.231	1	0.02	7
8	0.620	1	0.05	0.445	2	0.08	0.251	1	0.02	8
9	0.589	1	0.05	0.428	2	0.07	0.249	1	0.02	9
10	0.851	1	0.06	0.400	2	0.07	0.254	1	0.02	10
11	0.635	2	0.11	0.350	2	0.08	0.268	1	0.02	11
12	0.604	2	0.10	0.349	2	0.08	0.279	1 S	0.02	12
13	0.556	2	0.10	0.354	2	0.08	0.285	1	0.02	13
14	0.504	2	0.09	0.373	3	0.10	0.289	2 S	0.05	14
15	0.457	2	0.08	0.381	3	0.10	0.272	2	0.05	15
16	0.483	2	0.08	0.373	2	0.08	0.300	2	0.05	16
17	0.453	2	0.08	0.358	2	0.08	0.309	3	0.08	17
18	0.428	2	0.07	0.337	2	0.08	0.285	3 S	0.08	18
19	0.428	2	0.07	0.320	3	0.08	0.318	3	0.08	19
20	0.388	2	0.07	0.292	2	0.05	0.287	3	0.07	20
21	0.388	2	0.07	0.287	2	0.05	0.287	4	0.09	21
22	0.364	1	0.03	0.287	2	0.05	0.288	4	0.09	22
23	0.342	1	0.03	0.289	2	0.05	0.304	5 S	0.13	23
24	0.321	1	0.03	0.281	2	0.05	0.314	4	0.11	24
25	0.289	1	0.02	0.281	1	0.02	0.309	4	0.11	25
26	0.272	1	0.02	0.218	1	0.02	0.298	4	0.10	26
27	0.268	1	0.02	0.211	1	0.02	0.373	4	0.13	27
28	0.251	1	0.02	0.234	1	0.02	0.369	4	0.13	28
29	0.278	1	0.02	0.250	1	0.02	0.358	3	0.09	29
30	0.291	1	0.03	0.268	1	0.02	0.384	3	0.09	30
31	0.333	1	0.03	0.283	2	0.05				31
TOTAL	15.230		2.18	10.475		1.70	8.609		1.94	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.398	3 S	0.10	1.19	1 S	0.10	0.785 B	1	0.07	1
2	0.424	3	0.11	1.26	1	0.11	0.730 B	1	0.08	2
3	0.428	3	0.11	1.35	1	0.12	0.701 B	1	0.08	3
4	0.488	3	0.12	1.40	1	0.12	0.680 B	1	0.08	4
5	0.556	3	0.14	1.51	1	0.13	0.650 B	1	0.08	5
6	0.810	3	0.21	1.56	1	0.13	0.625 B	1	0.08	6
7	1.03	4 S	0.35	1.58	1	0.14	0.600 B	1	0.08	7
8	1.86	3	0.40	1.58	1	0.14	0.578 B	1	0.08	8
9	2.28	4	0.79	1.60	1	0.14	0.580 B	1	0.08	9
10	3.78	4	0.86	1.64 B	1	0.14	0.540 B	1	0.08	10
11	2.85	4	0.88	1.89 B	1	0.15	0.520 B	1	0.04	11
12	2.85	3	0.89	1.70 B	1 S	0.15	0.500 B	1	0.04	12
13	2.59	3	0.67	1.85 B	1	0.14	0.480 B	1	0.04	13
14	3.39	3	0.82	1.80 B	1	0.14	0.488 B	1	0.04	14
15	2.42	3	0.83	1.53 B	1	0.13	0.450 B	1	0.04	15
16	2.45	3 S	0.84	1.48 B	1	0.13	0.438 B	1	0.04	16
17	2.35	3	0.81	1.40 B	1	0.12	0.420 B	1	0.04	17
18	2.21	2	0.38	1.33 B	1	0.11	0.410 B	1	0.04	18
19	2.01	2	0.35	1.28 B	1	0.11	0.395 B	1	0.03	19
20	1.63	2	0.32	1.22 B	1	0.11	0.381 B	1	0.03	20
21	1.70	1	0.15	1.18 B	1	0.10	0.370 B	1	0.03	21
22	1.57	1	0.14	1.11 B	1	0.10	0.358 B	1	0.03	22
23	1.48	1 S	0.13	1.07 B	1	0.09	0.346 B	1	0.03	23
24	1.45	1	0.13	1.02 B	1	0.09	0.335 B	1	0.03	24
25	1.37	1	0.12	0.980 B	1	0.08	0.326 B	1	0.03	25
26	1.18	1	0.10	0.940 B	1	0.08	0.312 B	1	0.03	26
27	1.12 B	1	0.10	0.900 B	1	0.08	0.321 B	1	0.03	27
28	1.03	1	0.09	0.855 B	1	0.07	0.345 B	1	0.03	28
29	0.951	1	0.08	0.830 B	1	0.07	0.341 B	1	0.03	29
30	1.00	1	0.09	0.800 B	1	0.07	0.335 B	1	0.03	30
31	1.21	1	0.10				0.327 B	1	0.03	31
TOTAL	48.575		10.42	38.255		3.39	14.805		1.27	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 18	12:30	0.0	1.23	B	5.0	DH48	4	99														
MAR 26	10:00	0.0	0.595	B	5.0	DH48	2															
APR 14	16:35	1.5	38.0		5.0	DH48	5															
APR 15	16:40	0.0	40.7		5.0	DH48	4															
APR 16	16:40	1.0	45.5		5.0	DH48	4															
APR 17	15:10	1.0	44.9		5.0	DH48	3															
APR 18	16:45	2.0	43.0		5.0	DH48	2															
APR 19	17:50	1.5	36.7		5.0	DH48	2															
APR 20	16:40	3.0	31.0		5.0	DH48	1															
APR 21	16:30	4.0	24.7		5.0	DH48	3															
APR 22	15:45	3.5	23.9		5.0	DH48	2															
APR 23	13:30	3.5	24.8		5.0	DH48	1															
APR 24	16:10	2.5	28.9		5.0	DH48	1															
APR 25	15:35	3.5	31.8		5.0	DH48	2															
APR 26	16:40	3.0	32.3		5.0	DH48	1															
APR 27	16:20	3.0	33.5		5.0	DH48	4															
APR 28	15:50	3.5	32.3		5.0	DH48	1															
APR 29	17:10	3.5	31.2		5.0	DH48	1															
APR 30	17:20	4.0	28.4		5.0	DH48	6															
MAY 01	16:20	5.0	25.8		5.0	DH48	3															
MAY 02	16:15	4.0	24.3		5.0	DH48	1	82														
MAY 03	16:20	5.0	22.8		5.0	DH48	6															
MAY 04	16:15	4.5	22.4		5.0	DH48	1															
MAY 05	15:35	5.5	21.6		5.0	DH48	1															
MAY 06	17:10	4.5	19.8		10.0	DH48	1															
MAY 07	16:25	4.5	17.5		10.0	DH48	1															
MAY 08	15:20	4.0	15.8		10.0	DH48	1															
MAY 09	17:10	4.5	14.3		11.0	DH48	2															
MAY 10	14:35	5.5	13.2		11.0	DH48	3															
MAY 11	16:10	5.0	11.4		11.0	DH48	3															
MAY 12	17:15	7.5	10.4		12.0	DH48	1	93														
MAY 13	16:30	8.0	9.42		12.0	DH48	1															
MAY 14	18:05	9.0	9.14		13.0	DH48	1															
MAY 15	17:10	10.0	9.59		13.0	DH48	1															
MAY 16	17:15	11.0	10.8		13.0	DH48	1															
MAY 17	16:40	10.5	11.9		13.0	DH48	7															
MAY 18	16:40	10.0	12.0		13.0	DH48	1															
MAY 19	17:20	9.0	12.3		13.0	DH48	3															
MAY 20	17:00	9.5	11.6		13.0	DH48	8															
MAY 21	17:05	11.0	10.4		13.0	DH48	4															
MAY 22	18:10	11.5	9.56		13.0	DH48	3	103														
MAY 23	18:40	10.5	8.63		13.0	DH48	5															
MAY 24	17:10	11.5	7.81		13.0	DH48	2															
MAY 25	15:30	11.5	7.04		13.0	DH48	2															
MAY 26	16:20	12.0	6.01		13.0	DH48	1															
MAY 27	17:50	12.5	5.30		13.0	DH48	1															
MAY 31	08:50	10.5	4.12		13.0	DH48	2															
JUN 04	08:10	6.0	6.88		13.0	DH48	3															
JUN 05	15:10	9.5	12.2		13.0	DH48	1															
JUN 06	16:00	12.0	14.4		12.0	DH48	1															
JUN 07	18:30	11.5	14.6		12.0	DH48	1															
JUN 08	11:50	11.5	13.8		12.0	DH48	1															
JUN 12	16:30	11.5	11.9		13.0	DH48	5	94														
JUN 18	18:20	12.5	8.32		13.0	DH48	1															
JUN 19	15:40	12.0	5.48		10.0	DH48	2															
SEP 12	17:05	18.5	0.278		17.0	DH48	10															
SEP 14	10:15	13.5	0.289		17.0	DH48	9															
SEP 18	15:00	8.0	0.286		10.0	DH48	3															
SEP 23	18:15	10.5	0.317		10.0	DH48	5															
OCT 01	17:25	10.0	0.420		10.0	DH48	3															
OCT 07	17:40	8.0	1.03		10.0	DH48	4															
OCT 16	17:10	7.5	2.45		10.0	DH48	3															
OCT 23	17:15	5.5	1.50		10.0	DH48	1															
NOV 01	15:30	3.0	1.20		10.0	DH48	1															
NOV 12	11:45	0.0	1.70	B	10.0	DH48	1															

NOTE : SINGLE VERTICAL IS UNDETERMINED FOR 1986

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)			MINIMUM (mg/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)			TOTAL FOR PERIOD (TONNES)		SUMMARY JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1981	------CCCCCC	MANUAL	24	DEC	08	1	AUG	08 *	43.7	DEC	11	919		---	---	---
1982	CCCCCCCCCCCC	MANUAL	21	JAN	05	2	MAR	05	45.6	JUN	07	1 520	*	4.18	4.18	---
1983	CCCCCCCCCCCC	MANUAL	20	JAN	14	2	MAR	02	22.3	APR	30	1 130		3.11	3.65	14.7
1984	CCCCCCCCCCCC	MANUAL	52	FEB	11 *	3	DEC	28	72.1	MAY	18	1 520		4.14	3.81	9.2
1985	CCCCCCCCCCCC	MANUAL	28	MAY	24	1	APR	12	99.6	MAY	24 *	749		2.05	3.37	15.0
1986	CCCCCCCCCCCC	MANUAL	10	SEP	12	1	APR	20	46.7	APR	13	448		1.23	2.94	19.7

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

* - EXTREME FOR PERIOD OF RECORD

NEWFOUNDLAND

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZH008

SUSPENDED SEDIMENT FOR 1986

LOCATION: LAT 47 31 47 N LONG 52 44 34 W
DRAINAGE AREA: 52.7 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 1 370 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	2.73	8	2.12	2.81	10	2.51	7.81	20	13.5	1
2	4.71	13	5.28	1.80 B	8	1.24	6.38	13	7.14	2
3	2.54	10	2.19	1.50 B	8	1.04	9.28	20	18.0	3
4	2.05	10	1.77	1.32 B	7	0.80	4.67	13	5.25	4
5	1.90 B	9	1.48	1.23 B	7	0.74	2.80	7	1.69	5
6	1.55 B	8	1.14	1.15 B	8	0.80	4.42	10	3.82	6
7	1.48 B	8	1.02	1.09 B	8	0.87	3.04	7	1.84	7
8	1.37 B	8	0.95	1.03 B	8	0.53	2.25	5	0.97	8
9	1.25 B	7	0.76	0.980 B	5	0.42	1.84	5	0.71	9
10	1.15 B	6	0.60	0.930 B	5	0.40	1.32	5	0.57	10
11	1.08 B	6	0.55	0.900 B	5	0.39	1.33	3	0.34	11
12	1.02 B	5	0.44	0.885 B	5	0.37	2.49	7	1.51	12
13	1.22	4	0.42	0.830 B	4	0.28	1.97	7	1.19	13
14	2.16	7	1.31	0.800 B	4	0.28	1.42	5	0.74	14
15	2.83	10	2.27	0.780 B	4	0.27	1.20	5	0.52	15
16	1.88	7	1.14	3.99	15	5.52	1.05 B	5	0.45	16
17	1.78	4 S	0.61	3.77	17	5.54	0.970 B	5	0.42	17
18	1.80	4	0.62	3.24	7 S	1.98	0.925 B	4	0.32	18
19	2.14	5	0.82	2.78	6	1.44	0.880 B	4	0.30	19
20	2.74	7	1.66	2.00	5	0.86	4.73	27 S	11.0	20
21	15.7	42	57.0	1.83	5	0.70	4.38	38	14.3	21
22	6.28	27	14.6	1.35 B	5	0.58	1.83	27	4.27	22
23	3.05	14	3.69	1.22 B	5	0.53	1.14	19	1.87	23
24	2.17	10	1.87	1.12 B	4	0.39	1.44	13	1.82	24
25	1.57	8	1.09	1.05 B	4	0.35	1.22	9	0.95	25
26	1.41	8	0.73	4.55	17	6.68	1.08	6 S	0.55	26
27	2.03	7	1.23	5.30	10 S	4.58	5.42	21	9.83	27
28	7.24	22	13.8	11.2	24	23.2	12.5	33	35.6	28
29	12.6	41	44.6				7.07	24	14.7	29
30	4.83	24	9.60				5.50	15	8.42	30
31	4.15	12 S	4.30				8.84	17	13.0	31
TOTAL	100.10		179.78	81.315		62.79	111.835		173.49	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	8.52	16	11.8	0.810 E	3	0.21	0.462	2	0.08	1
2	7.59	11 S	7.21	0.749 A	3 S	0.18	0.441	2	0.08	2
3	13.0	26	29.2	0.908	3	0.24	0.670	2	0.12	3
4	5.83	22	11.1	0.868	3	0.22	0.706	3	0.18	4
5	2.97	13	3.34	0.879	3	0.23	0.527	2	0.09	5
6	1.89	7	1.20	1.19	3	0.31	0.539	1	0.05	6
7	1.40	6 S	0.80	1.48	5	0.64	0.468	2	0.08	7
8	1.31	3	0.34	2.93	12	3.04	0.706	11	0.67	8
9	1.24	2	0.21	2.29	10	1.98	4.38	203 S	75.8	9
10	1.29	1	0.11	1.86	7	1.12	1.86	42 S	7.11	10
11	38.2	113	373	1.64	4	0.57	1.31	3 S	0.34	11
12	11.8	88	89.9	1.38	3	0.35	1.06	2	0.18	12
13	4.49	25	10.1	1.21	2 S	0.21	0.823	1 S	0.08	13
14	3.42	9	2.85	1.15	3 S	0.30	0.859	1	0.07	14
15	2.76	3 S	0.72	1.07	2	0.18	0.823	1	0.07	15
16	6.54 A	5	3.39	0.824	1 S	0.08	0.885	1 S	0.08	16
17	9.80 E	55	46.6	0.825	1	0.08	0.739	3 S	0.19	17
18	4.80 E	22	9.31	0.844	2	0.15	1.18	3	0.31	18
19	3.40 E	7	2.06	0.801	2	0.14	0.840	3	0.22	19
20	2.10 E	4	0.73	0.736	4 S	0.25	0.714	3	0.19	20
21	1.80 E	4	0.62	0.847	4	0.33	0.648	3	0.17	21
22	1.55 E	4	0.54	0.908	4	0.31	0.586	3	0.15	22
23	1.39 E	3	0.36	0.900	3	0.23	0.655	3	0.17	23
24	1.28 E	4	0.44	0.785	3	0.20	0.585	3	0.15	24
25	1.20 E	4	0.41	0.688	3	0.18	0.885	3 S	0.15	25
26	1.13 E	3	0.29	0.639	3	0.17	0.592	3 S	0.15	26
27	1.07 E	3	0.28	0.601	3	0.16	0.531	3	0.14	27
28	0.990 E	3	0.26	0.579	3	0.15	0.484	2	0.08	28
29	0.910 E	3	0.24	0.557	3	0.14	1.62	7	0.98	29
30	0.860 E	3	0.22	0.588	3	0.15	1.14	5	0.78	30
31				0.531	3	0.14				31
TOTAL	144.830		587.24	32.347		12.85	27.378		89.80	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZH008

SUSPENDED SEDIMENT FOR 1988

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.916	7	0.55	1.08	4	0.37	0.333	4	0.12	1
2	0.780	6	0.40	2.07	8	1.43	0.416	4	0.14	2
3	1.04	9 S	0.81	1.48	7	0.90	0.545	4 S	0.19	3
4	0.997	10	0.86	1.01	5 S	0.44	0.794	4	0.27	4
5	0.838	8	0.65	1.25	8	0.88	0.639	4	0.22	5
6	0.750	7	0.45	0.898	7 S	0.54	0.622	4	0.21	6
7	0.690	6	0.36	0.886	6 S	0.36	0.527	4	0.18	7
8	1.34	7	0.81	0.585	5	0.25	0.496	4	0.17	8
9	1.26	7	0.78	0.617	4	0.21	0.950	4	0.33	9
10	0.899	6	0.47	2.27	11	2.16	0.850	4	0.22	10
11	0.812	6	0.42	1.31	5 S	0.57	0.587	4	0.20	11
12	0.817	6	0.42	0.996	5 S	0.43	0.488	4	0.17	12
13	0.787	5	0.34	0.832	5	0.38	0.519	4	0.18	13
14	0.805	4	0.21	0.880	6 S	0.34	0.557	4	0.19	14
15	0.802	3	0.18	0.858	6	0.34	0.488	4 S	0.18	15
16	0.750	2	0.13	0.588	6	0.30	0.392	3	0.10	16
17	0.626	2 S	0.11	0.577	6	0.30	1.24	5	0.64	17
18	0.511	2	0.09	0.555	6	0.29	1.26	5 S	0.65	18
19	0.452	2	0.08	0.513	6	0.27	0.835	4	0.29	19
20	1.68	7	1.02	0.488	5	0.25	0.818	4	0.21	20
21	1.88	7 S	1.14	0.455	8	0.24	0.845	4	0.22	21
22	1.13	6	0.59	0.508	6	0.28	1.13	4	0.39	22
23	0.832	7 S	0.50	0.482	5	0.21	0.938	3	0.24	23
24	0.892	7	0.42	0.482	5	0.21	0.808	3	0.21	24
25	0.569	6	0.29	0.494	5	0.21	0.754	3	0.20	25
26	0.512	8	0.27	0.547	5	0.24	0.678	2	0.12	26
27	0.413	5	0.21	0.451	5	0.19	4.89	22	9.48	27
28	0.422	4	0.15	0.388	5	0.16	4.90	18	8.77	28
29	1.18	8	0.82	0.601	5	0.26	2.78	4 S	0.86	29
30	1.47	9 S	1.14	0.478	4	0.16	2.31	7 S	1.40	30
31	0.954	5	0.41	0.380	4	0.13				31
TOTAL	27.279		15.04	24.384		13.24	32.865		24.83	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	2.22	6	1.15	3.20	3	0.83	4.33	2	0.75	1
2	2.35	4 S	0.81	3.10	3	0.80	3.69	2	0.64	2
3	1.82	3	0.50	2.93	3	0.76	3.30	2	0.57	3
4	1.74	2	0.30	2.77	2	0.48	4.82	9	3.58	4
5	8.50	22	16.2	4.28	8	2.22	5.36	10	4.83	5
6	8.04	17 S	11.8	3.17	4	1.10	3.78	5	1.63	6
7	5.24	8	2.72	3.33	3	0.86	3.20	4	1.11	7
8	4.24	6	2.20	3.30	3	0.86	2.81	4	0.97	8
9	3.89	6	2.02	3.05	3	0.79	2.55 B	4	0.88	9
10	4.00	5	1.73	7.48	13	8.40	2.30 B	4	0.79	10
11	3.85	5	1.66	4.14	4	1.43	2.10 B	4	0.73	11
12	3.45	4	1.19	3.32	3	0.86	1.90 B	4	0.66	12
13	3.20	4	1.11	3.28	3	0.85	1.78 B	3	0.48	13
14	3.10	3	0.80	3.85	4	1.25	1.65 B	3	0.43	14
15	3.04	3	0.79	2.87	3	0.74	1.55 B	2	0.27	15
16	2.84	2	0.49	3.31	3	0.86	1.48 B	2	0.26	16
17	2.79	2 S	0.48	3.05	2	0.63	1.40 B	2	0.24	17
18	9.11	17	13.4	3.15	3	0.82	1.34 B	2	0.23	18
19	5.92	4	2.05	3.20	2	0.65	1.28 B	2	0.22	19
20	4.17	3	1.08	2.75	2	0.48	2.17	2	0.37	20
21	3.58	3 S	0.83	2.82	2	0.80	4.86	10	4.20	21
22	3.26	2	0.58	9.84	35	28.2	3.24	4	1.12	22
23	3.08	2	0.53	7.50	11	7.13	2.53	3	0.86	23
24	4.14	5	1.79	4.84	2	0.80	2.36	4	0.82	24
25	3.84	3	1.00	11.9	33 S	33.8	2.17	3	0.56	25
26	3.30	3	0.85	6.88	7	4.03	2.11	3	0.55	26
27	2.87	2	0.50	5.83	5	2.43	2.48	2	0.43	27
28	8.06	12	5.28	6.57	4	2.27	2.18	2	0.38	28
29	4.77	4	1.65	4.57	1	0.39	1.88 B	2	0.32	29
30	3.85	4	1.33	4.85	2	0.79	1.70 B	2	0.29	30
31	3.89	4	1.28				1.58 B	1	0.13	31
TOTAL	126.05		79.19	134.61		107.02	79.85		38.89	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZH003

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 17	14:47	0.5	1.74	8.0	DH48	4	261														
JAN 31	14:30	2.5	4.69	8.0	DH48	12															
FEB 18	13:52	0.5	3.21	8.0	DH48	6															
FEB 27	12:19	1.0	5.67	8.4	DP48	8															
MAR 20	13:30	0.5	4.81	8.0	DH48	35															
MAR 26	13:35	0.5	1.85	8.0	DH48	6															
APR 02	09:58	3.0	3.86	8.0	DH48	4	177														
APR 08	15:04	0.5	1.28	8.0	DH48	3															
APR 15	14:02	5.5	2.45	8.0	DH48	3															
MAY 02	13:10	1.5	0.749	8.0	DH48	3															
MAY 13	11:36	5.5	1.02	8.0	DH48	2	195														
MAY 14	12:12	8.5	1.16	8.0	DH48	4															
MAY 16	08:45	10.0	0.934	8.0	DH48	1															
MAY 20	11:35	10.5	0.740	8.0	DH48	4															
JUN 09	10:35	14.5	7.82	8.0	DH48	322															
JUN 10	13:45	12.5	1.73	8.0	DH48	8															
JUN 11	14:08	12.0	1.21	8.0	DH48	3															
JUN 13	12:05	13.0	0.925	8.0	DH48	1															
JUN 16	10:00	13.0	0.795	8.0	DH48	1															
JUN 17	12:10	15.5	0.704	8.0	DH48	3															
JUN 25	09:45	15.5	0.605	10.0	DH48	3															
JUN 26	12:31	16.5	0.532	10.0	DH48	2															
JUL 03	12:08	13.5	1.28	8.0	DH48	12															
JUL 17	13:05	8.0	0.814	10.0	DH48	3	200														
JUL 21	13:10	16.5	1.72	10.0	DH48	5															
JUL 23	13:40	19.0	0.620	10.0	DH48	4															
JUL 30	13:00	13.0	1.35	10.0	DH48	7															
AUG 04	08:20	16.0	1.08	10.0	DH48	5															
AUG 06	10:10	17.0	0.925	10.0	DH48	7															
AUG 07	14:15	19.0	0.749	10.0	DH48	8															
AUG 11	12:40	16.0	1.26	10.0	DH48	3	161														
AUG 12	13:35	19.0	0.988	10.0	DH48	5															
AUG 14	10:55	16.5	0.731	10.0	DH48	6															
SEP 03	12:35	8.0	0.481	10.0	DH48	4															
SEP 15	09:50	12.5	0.472	10.0	DH48	4															
SEP 18	08:37	11.5	1.31	10.0	DH48	8															
SEP 25	11:35	8.0	2.73	10.0	DH48	3															
SEP 30	10:05	7.0	2.29	10.0	DH48	7															
OCT 02	12:50	10.5	2.34	10.0	DH48	3															
OCT 06	13:30	8.0	7.54	10.0	DH48	12															
OCT 17	15:20	8.0	2.88	4.0	DH48	2															
OCT 21	11:00	5.0	3.58	10.0	DH48	3															
NOV 25	12:00	1.5	15.5	8.4	DH48	41															

NOTE : SINGLE VERTICAL IS UNDETERMINED FOR 1985

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZH003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1978	----PCCCCCCC	MANUAL	57	SEP 29	5	JUL 05	40.0	DEC 19	308	---	---	---
1979	CCCCCCCCCCCC	MANUAL	303	APR 10	3	FEB 05	111	OCT 31	1 890	5.19	5.19	---
1980	CCCCCCCCCCCC	MANUAL	116	DEC 30	3	FEB 05	101	AUG 17	2 380	6.52	5.66	11.3
1981	CCCCCCCCCCCC	MANUAL	215	AUG 19	2	DEC 14	348	NOV 25	3 170 *	8.69	8.80	15.0
1982	CCCCCCCCCCCC	DUAL	84	SEP 19	2	FEB 12	156	SEP 19	1 320	3.63	8.01	17.6
1983	CCCCCCCCCCCC	DUAL	49	MAR 21	1	JAN 31 *	78.5	OCT 25	1 170	3.21	5.45	18.4
1984	CCCCCCCCCCCC	DUAL	87	APR 29	1	FEB 28	103	APR 14	1 080	2.95	5.03	18.2
1985	CCCCCCCCCCCC	MANUAL	142	APR 17	1	JAN 11	334	MAY 25	1 230	3.36	4.78	16.9
1986	CCCCCCCCCCCC	MANUAL	322	JUN 09 *	1	MAY 16	373	APR 11 *	1 370	3.76	4.66	15.3

DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

E - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1986

LOCATION: LAT 44 55 59 N LONG 65 01 47 W
DRAINAGE AREA: 546 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 4 910 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	4.98 B	6 S	3.44	17.2 B	4	5.84	2.14 B	3	0.55	1
2	5.62 B	6 S	3.88	14.2 B	3 S	3.68	2.11 B	3 S	0.55	2
3	4.86 B	7 S	2.94	12.0 B	3	3.11	2.09 B	4	0.72	3
4	23.0	36 S	93.5	10.3 B	3	2.64	2.06 B	4	0.71	4
5	27.5	12 S	28.9	8.85 B	3 S	2.29	2.02 B	4	0.70	5
6	15.5 B	6 S	8.67	7.85 B	3	1.94	2.01 B	5 S	0.87	6
7	12.3 B	2 S	2.13	6.87 B	3	1.78	1.99 B	5	0.86	7
8	10.3 B	1 S	0.89	6.15 B	3	1.59	1.98 B	4	0.68	8
9	9.05 B	2 S	1.55	5.62 B	3	1.43	1.96 B	5	0.83	9
10	8.10 B	2 S	1.40	5.03 B	3	1.30	1.95 B	5 S	0.84	10
11	7.36 B	2 S	1.28	4.84 B	3 S	1.20	1.93 B	5	0.83	11
12	6.75 B	1 S	0.58	4.37 B	3	1.11	6.98 B	10 S	5.03	12
13	6.36 B	3 S	1.65	3.97 B	3	1.03	7.05 B	5	3.05	13
14	5.84 B	3	1.54	3.70 B	3	0.96	7.20 B	4	2.88	14
15	5.65 B	2	0.98	3.50 B	3	0.91	7.05 B	12 S	4.24	15
16	5.45 B	2	0.94	3.30 B	2 S	0.57	27.1 B	17 S	39.8	16
17	5.20 B	2	0.90	3.12 B	3	0.84	27.6 B	18	43.7	17
18	5.05 B	2	0.87	2.97 B	3	0.81	25.3 B	18	45.7	18
19	4.98 B	2	0.85	2.87 B	3	0.80	24.2 B	18 S	41.8	19
20	7.40 B	10	6.38	2.78 B	6 S	1.19	97.0 B	45 S	611	20
21	56.5 B	22	107	2.67 B	6	1.38	109 B	30 S	188	21
22	33.6 B	4	23.4	2.56 B	5	1.11	90.8	11 S	86.3	22
23	27.8 B	7	16.8	2.51 B	4 S	0.87	58.2	9 S	45.3	23
24	23.7 B	7	14.3	2.43 B	4	0.84	38.2	10 S	33.9	24
25	20.6 B	7	12.8	2.38 B	4	0.82	27.2 B	13 S	28.2	25
26	18.9 B	7	11.6	2.33 B	4	0.81	25.1 B	26 S	58.8	26
27	23.8 B	7	14.5	2.28 B	3	0.69	46.6	27 S	109	27
28	48.5 B	24 S	103	2.23 B	3	0.68	57.5	17 S	88.1	28
29	31.9 B	16 S	45.2				54.2	10 S	46.8	29
30	27.1 B	7 S	16.4				45.9	8 S	31.7	30
31	22.1 B	4 S	7.84				47.2	9	28.5	31
TOTAL	521.76		492.70	148.16		61.26	894.53		1 389.97	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	47.6	9 S	37.2	11.3	9	8.78	11.2	13	12.6	1
2	42.1	6	21.8	10.4	10	8.88	13.7	18 S	22.5	2
3	36.6	7	21.5	9.61	12 S	9.86	16.8	19 S	37.6	3
4	29.2	12 S	30.3	8.82	11	8.19	13.7	8	9.47	4
5	24.0	13	27.0	8.76	11	8.34	10.6	7	6.39	5
6	19.7	14	23.8	8.46	10	7.31	8.82	5	4.42	6
7	17.2	13	18.3	7.87	9	6.30	7.63	4	2.57	7
8	16.1	13 S	18.1	7.30	8 S	5.05	10.3	15 S	13.3	8
9	22.8	28 S	55.2	6.74	7	4.10	18.5	33	53.8	9
10	45.7	61 S	201	6.34	5	2.74	12.8	16 S	17.7	10
11	84.6	27 S	151	6.05	4	2.09	9.33	13	10.4	11
12	85.4	13 S	82.2	5.67	3 S	1.62	7.83	11	7.84	12
13	68.8	13 S	63.2	5.68	3	1.53	7.38	8	5.09	13
14	38.8	12	35.6	5.80	3	1.63	9.89	13 S	10.0	14
15	27.5	11	26.1	5.13	3	1.33	9.00	8 S	6.32	15
16	22.0	9	17.8	4.67	3	1.28	7.43	5	3.65	16
17	20.5	8 S	14.4	4.78	3	1.24	8.67	13 S	9.74	17
18	16.6	8	9.75	6.36	6 S	2.32	8.67	11	8.24	18
19	16.4	8	8.80	5.20	2	0.90	8.75	11	8.62	19
20	14.6	8	8.31	4.88	3	0.84	8.77	10	6.88	20
21	13.4	9	8.78	4.85	3	0.80	8.44	10	6.78	21
22	12.5	7 S	7.85	8.26	7	2.78	5.16	9 S	4.01	22
23	13.0	11	12.4	13.5	48 S	56.0	4.86	7	2.94	23
24	16.8	6	11.6	36.7	47 S	108	4.75	8	3.46	24
25	16.3	8	8.48	48.3	25 S	104	4.88	6 S	1.68	25
26	16.0	7	8.88	40.3	14 S	62.5	4.78	5	1.68	26
27	16.8	5 S	10.2	37.6	15	35.4	4.62	4	1.60	27
28	15.6	7	8.58	18.7	14 S	22.6	4.63	4	1.57	28
29	13.9	9	8.41	15.0	14	18.1	5.33	5	1.84	29
30	12.6	8	8.57	12.9	13	14.5	5.89	4	1.89	30
31				11.3	13	12.7				31
TOTAL	789.9		932.38	384.02		529.82	281.77		248.14	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1988

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	4.74	4	1.64	53.7	33 S	107	13.0			1
2	4.50	4	1.56	45.0	9 S	35.0	11.1			2
3	5.15	3	1.33	28.8	8	20.0	8.55			3
4	5.30	3	1.37	20.9	8	14.4	7.93			4
5	4.99	3	1.29	16.7	7	11.3	8.81			5
6	4.78	3	1.24	14.8	7	8.95	8.38			6
7	4.56	3 S	1.18	13.0	7	7.28	10.5			7
8	4.49	3	1.16	10.5	7	8.35	9.33			8
9	4.28	3	1.11	10.2	6	5.29	7.98			9
10	4.00	3	1.04	8.57	5	4.13	7.39			10
11	3.77	3	0.98	8.58			5.88			11
12	3.73	3	0.97	7.65			5.07			12
13	3.66	3 S	0.95	8.02			4.70			13
14	3.63	3 S	0.94	8.27			4.56			14
15	3.84	3	1.00	5.63			11.6			15
16	3.83	3	0.98	5.61			11.2			16
17	3.76	3	0.97	6.81			8.53	4	2.95	17
18	3.83	3	0.96	7.08			8.05	4	2.99	18
19	3.97	3	0.93	7.18 A			8.47	3 S	2.85	19
20	3.46	3	0.89	7.82 A			8.08	4	2.80	20
21	3.46	3	0.88	8.58 A			7.01	4	2.62	21
22	3.37	3	0.87	8.82 A			6.82	4 S	2.36	22
23	3.27	3 S	0.87	8.21 E			6.78	4	2.35	23
24	3.13	3	0.84	8.16 E			6.33	4	2.19	24
25	3.08	3	0.83	8.24 E			5.76	3	1.50	25
26	3.08	3	0.83	8.01 E			5.14	3 S	0.83	26
27	3.82	3	0.83	7.66 E			5.15	3	0.80	27
28	10.4	6	7.18	8.73 E			6.89	3	1.16	28
29	24.5	42 S	69.3	8.60 E			6.85	3	1.15	29
30	24.4	16	33.7	7.84 E			5.92	3	1.02	30
31	38.7	45 S	150	8.05 E			5.33	3 S	0.93	31
TOTAL	204.77		307.33	387.85		319.03	281.27		38.04	TOTAL

DAY	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	4.84	3	0.85	15.1	4	5.32	1
2	4.78	3	0.83	12.5	4 S	4.32	2
3	5.66	7 S	3.44	13.7	6	6.92	3
4	5.98	8	4.25	27.7	32 S	76.5	4
5	5.14	8 S	3.69	26.7	13 S	30.0	5
6	4.85	8	3.35	21.8	9	17.0	6
7	4.00	7	2.83	16.8	6	8.71	7
8	5.19	8	3.80	13.8 B	4 S	4.43	8
9	5.57	8	3.94	11.2 B	3	2.90	9
10	6.05	8	5.58	10.6 B	4	3.63	10
11	7.88	4	3.88	10.2 B	5 S	4.61	11
12	7.00	4	2.62	8.76 B	5	4.32	12
13	8.02	4 S	3.77	8.50 B	4	3.36	13
14	7.45	4	3.57	8.30 B	4	3.21	14
15	6.20	4	2.14	8.08 B	3	2.35	15
16	5.94	3	1.54	8.04 B	3 S	1.93	16
17	5.82	3 S	1.51	8.04 B	3	1.68	17
18	5.67	3	1.47	8.03 B	3	2.31	18
19	5.13	3	1.33	8.37 B	4	2.89	19
20	4.76	3	1.24	8.33 B	4 S	2.84	20
21	5.86	3	1.52	8.16 B	3	2.11	21
22	21.1	37 S	67.6	8.03 B	3	2.08	22
23	19.4	18 S	31.6	7.98 B	3 S	1.38	23
24	18.1	30 S	48.5	7.84 B	3	1.35	24
25	28.1	33 S	88.8	7.76 B	3	1.34	25
26	24.7	14 S	29.8	22.6	35 S	67.7	26
27	26.1	25 S	40.7	20.3 B	17	29.8	27
28	27.8	16 S	38.4	15.0 B	14	18.1	28
29	23.1	8	16.0	11.9 B	12	12.3	29
30	16.8	6 S	8.04	9.75 B	10	8.02	30
31				7.88 B	8 S	6.31	31
TOTAL	336.44		413.51	365.47		337.84	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLES	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN	01	14:35	0.5	4.98	B	15.0	DIS	9															
JAN	02	16:25	0.5	5.02	B	15.0	DIS	6															
JAN	03	16:34	0.5	4.86	B	15.0	DIS	7															
JAN	04	16:50	0.5	23.6		15.0	DIS	31															
JAN	05	11:43	0.5	27.9		15.0	DIS	12															
JAN	06	16:55	0.5	15.9	B	15.0	DIS	5															
JAN	07	12:42	0.5	12.3	B	15.0	DIS	2														73	
JAN	08	16:54	0.5	10.3	B	15.0	DIS	1															
JAN	09	17:15	0.5	8.05	B	15.0	DIS	2															
JAN	10	18:48	0.5	8.10	B	15.0	DIS	2															
JAN	11	15:07	0.5	7.26	B	15.0	DIS	2															
JAN	12	14:13	0.5	6.75	B	15.0	DIS	1															
JAN	13	19:50	0.5	6.36	B	15.0	DIS	3															
JAN	28	10:05	1.0	88.5	B	15.0	DIS	28															
JAN	29	16:40	1.0	88.5	B	15.0	DIS	31															
JAN	30	10:42	0.5	34.9	B	15.0	DIS	13															
JAN	30	11:42	0.5	37.1	B	15.0	DIS	7															
JAN	31	10:30	0.5	33.1	B	15.0	DIS	6															
FEB	02	17:30	0.5	10.3	B	15.0	DIS	3														85	
FEB	05	17:30	0.5	6.85	B	15.0	DIS	3															
FEB	11	16:07	0.5	6.84	B	15.0	DIS	3															
FEB	16	09:20	0.5	3.30	B	15.0	DIS	2															
FEB	20	16:55	0.5	2.76	B	15.0	DIS	5															
FEB	23	16:30	0.5	2.81	B	15.0	DIS	4															
MAR	02	16:25	0.5	3.11	B	15.0	DIS	3															
MAR	08	11:25	0.5	3.01	B	15.0	DIS	4															
MAR	10	15:50	0.5	1.95	B	15.0	DIS	3														107	
MAR	12	17:05	0.5	5.55	B	15.0	DIS	14															
MAR	15	17:10	0.5	7.95	B	15.0	DIS	23															
MAR	16	10:15	0.5	27.1	B	15.0	DIS	18															
MAR	18	17:00	1.0	34.2	B	15.0	DIS	14															
MAR	30	08:05	0.5	97.0	B	15.0	DIS	62															
MAR	20	15:15	1.0	87.0	B	15.0	DIS	60															
MAR	21	08:30	0.5	103	B	15.0	DIS	15															
MAR	31	16:05	0.5	109	B	15.0	DIS	34															
MAR	22	10:25	0.5	93.5		15.0	DIS	11															
MAR	23	13:40	1.0	55.7		15.0	DIS	5														69	
MAR	24	17:10	1.5	37.1		15.0	DIS	11															
MAR	25	17:05	1.0	29.8		15.0	DIS	13															
MAR	26	18:55	2.5	27.8		15.0	DIS	40															
MAR	27	10:15	2.0	66.0		15.0	DIS	24															
MAR	27	17:10	3.5	61.1		15.0	DIS	26															
MAR	28	17:30	3.0	68.3		15.0	DIS	14															
MAR	29	15:05	3.5	84.1		15.0	DIS	8															
MAR	30	15:00	5.0	64.0		15.0	DIS	8															
APR	01	16:40	7.0	47.0		15.0	DIS	6															
APR	04	16:55	7.0	36.3		15.0	DIS	14														48	
APR	05	17:00	6.0	16.7		15.0	DIS	13															
APR	09	17:05	6.0	36.4		15.0	DIS	54															
APR	10	10:07	3.0	39.7		15.0	DIS	49															
APR	10	16:55	3.5	54.0		15.0	DIS	53															
APR	11	16:50	5.0	68.8		15.0	DIS	22															
APR	12	16:35	5.0	63.7		15.0	DIS	11															
APR	13	9:47	5.5	63.3		15.0	DIS	16															
APR	17	16:40	9.0	30.6		15.0	DIS	7															
APR	22	17:00	10.0	12.4		15.0	DIS	13															
APR	27	13:50	13.0	16.8		15.0	DIS	7															
MAY	03	16:20	11.0	8.38		15.0	DIS	13															
MAY	06	16:03	12.0	10.8		15.0	DIS	8														70	
MAY	12	17:05	8.0	8.68		15.0	DIS	3															
MAY	16	08:15	12.0	8.27		15.0	DIS	8															
MAY	23	17:55	14.0	17.3		15.0	DIS	52															
MAY	24	11:35	10.5	26.1		15.0	DIS	39															
MAY	25	08:00	17.5	51.1		15.0	DIS	32															
MAY	25	13:55	15.0	61.3		15.0	DIS	37															
MAY	28	10:05	14.0	42.7		15.0	DIS	17															
MAY	28	11:32	13.5	18.8		15.0	DIS	14														87	
JUN	03	10:17	14.0	13.6		15.0	DIS	14															
JUN	03	10:00	13.0	17.6		15.0	DIS	18															
JUN	04	16:35	16.0	13.6		15.0	DIS	25															
JUN	10	09:55	15.0	13.8		15.0	DIS	19															
JUN	14	09:50	13.0	9.67		15.0	DIS	14															
JUN	16	15:10	16.0	8.91		15.0	DIS	9															
JUN	17	16:40	16.5	9.04		15.0	DIS	34															
JUN	22	13:44	16.0	9.16		15.0	DIS	8															
JUN	26	08:25	16.0	8.67		15.0	DIS	4															
JUL	07	07:30	14.5	4.60		15.0	DIS	3														80	
JUL	13	16:55	20.0	3.66		15.0	DIS	5															
JUL	14	16:30	18.0	3.95		15.0	DIS	11															
JUL	23	08:30	17.5	3.34		15.0	DIS	3															
JUL	28	08:55	18.0	38.5		15.0	DIS	49															
JUL	29	16:30	16.5	43.3		15.0	DIS	31															
JUL	31	13:35	17.0	33.6		15.0	DIS	113															
JUL	31	16:00	16.5	57.3		15.0	DIS	63															
AUG	01	14:35	17.0	84.1		15.0	DIS	15															
AUG	02	16:35	16.0	42.3		15.0	DIS	6															
SEP	19	16:00	7.0	8.47		15.0	DIS	3														78	
SEP	22	17:15	8.0	11.6		15.0	DIS	5															
SEP	26	16:35	7.5	9.04		15.0	DIS	2															
SEP	27	17:00	7.0	8.37		15.0	DIS	3															
SEP	03	16:50	6.0	9.82		15.0	DIS	14															
SEP	08	16:45	6.5	6.88		15.0	DIS	8															
SEP	13	10:00	6.5	22.6		15.0	DIS	4															
SEP	17	11:55	5.0	6.74		15.0	DIS	15															
SEP	23	16:15	0.5	22.8		15.0	DIS	36															
SEP	23	13:35	1.0	19.0		15.0	DIS	17															
SEP	24	16:45	2.0	18.5		15.0	DIS	56															
SEP	25	10:05	3.0	28.1		15.0	DIS	31														78	
SEP	25	16:47	3.0	28.1		15.0	DIS	31															
SEP	26	16:50	3.0	24.0		15.0	DIS	12															
SEP	27	10:10	4.0	28.3		15.0	DIS	27															
SEP	27	16:50	5.0	31.7		15.0	DIS	37															
SEP	28	13:00	1.0	29.6		15.0	DIS	15															

NOTE : SINGLE VERTICAL LOCATED AT 15.0 METRES FOR 1986

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

CONTINUED

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
NOV 30	15:10	2.0	18.3	15.0	D48	5															
DEC 02	16:55	1.0	12.5	15.0	D48	4															
DEC 04	10:05	3.0	27.5	15.0	D48	26															
DEC 04	16:50	3.5	28.5	15.0	D48	20															
DEC 05	16:45	3.0	26.3	15.0	D48	11															
DEC 08	16:53	0.5	14.0	15.0	D48	3															
DEC 11	16:55	0.5	11.5	15.0	D48	5															
DEC 16	16:53	0.0	10.4	15.0	D48	2															
DEC 20	09:20	0.5	15.7	15.0	D48	4															
DEC 23	09:25	0.5	12.3	15.0	D48	2															
DEC 26	10:43	1.0	23.6	15.0	D48	36															
DEC 26	16:47	1.0	32.9	15.0	D48	28															
DEC 31	16:25	0.5	8.78	15.0	D48	5															

NOTE : SINGLE VERTICAL LOCATED AT 15.0 METRES FOR 1986

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY . JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1967	----------E	MANUAL	33	DEC 17	4	DEC 25	231	DEC 06	1 470	---	---	---
1968	CCCCCCCCCCCC	MANUAL	67	NOV 29	2	JAN 01	268	NOV 30	4 580	12.5	12.5	---
1969	CCCCCCCCCCCC	MANUAL	38	MAY 21	1	JUN 15 *	142	DEC 23	3 240	8.87	10.7	17.0
1970	CCCCCCCCCCCC	MANUAL	88	MAR 27	1	JAN 11	242	FEB 04	2 930	8.02	9.80	14.0
1971	CCCCCCCCCCCC	MANUAL	45	MAY 17	1	JUL 25	341	AUG 17	4 090	11.2	10.1	10.2
1972	CCCCCCCCCCCC	MANUAL	51	MAY 05	1	NOV 26	808	MAY 05	5 370	14.7	11.1	10.8
1973	CCCCCCCCCCCC	MANUAL	200	DEC 07	1	APR 08	487	DEC 07	8 020	18.6	12.0	11.2
1974	CCCCCCCCCCCC	MANUAL	385	SEP 04 *	1	APR 27	259	SEP 04	4 660	13.3	13.2	9.4
1975	CCCCCCCCCCCC	MANUAL	112	NOV 14	2	SEP 14	205	MAR 21	4 110	11.3	12.0	8.4
1976	CCCCCCCCCCCC	MANUAL	75	DEC 06	1	FEB 01	801	DEC 27	7 570	20.7	13.0	10.0
1977	CCCCCCCCCCCC	MANUAL	42	SEP 15	2	AUG 07	230	OCT 02	5 800	14.3	13.3	9.1
1978	CCCCCCCCCCCC	MANUAL	87	JAN 15	1	JAN 04	872	JAN 15 *	3 830	10.4	13.1	8.5
1979	CCCCCCCCCCCC	MANUAL	77	AUG 13	1	JAN 19	560	JAN 30	8 530 *	23.4	14.0	9.5
1980	CCCCCCCCCCCC	MANUAL	60	NOV 11	1	AUG 17	148	APR 05	3 470	9.48	13.8	9.4
1981	CCCCCCCCCCCC	MANUAL	74	MAR 31	1	DEC 29	284	NOV 21	5 200	14.2	13.7	8.6
1982	CCCCCCCCCCCC	MANUAL	89	APR 28	1	AUG 06	308	APR 28	3 330	9.12	13.4	8.5
1983	CCCCCCCCCCCC	MANUAL	66	MAY 03	1	AUG 28	161	MAR 14	3 850	10.8	13.3	8.3
1984	CCCCCCCCCCCC	MANUAL	75	DEC 11	2	NOV 18	195	MAR 18	4 210	11.5	13.1	7.8
1985	CCCCCCCCCCCC	MANUAL	113	MAR 13	1	APR 21	405	MAR 13	4 150	11.4	13.0	7.4
1986	CCCCCCCP-PCC	MANUAL	113	JUL 31	1	JAN 08	411	MAR 20	4 910	---	---	---

MANUAL - MANUAL SAMPLING

E - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1986

LOCATION: LAT 45 35 10 N LONG 64 27 05 W
DRAINAGE AREA 83.2 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 287 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.870 B	2	0.15	1.80 B	3	0.47	0.320 B	1	0.03	1
2	0.870 B	2	0.17	1.45 B	2	0.25	0.315 B	1	0.03	2
3	0.810 B	2	0.14	1.23 B	1	0.11	0.305 B	2	0.05	3
4	0.900 B	2	0.15	1.06 B	2	0.18	0.297 B	2	0.05	4
5	1.04 B	2	0.18	1.00 B	3	0.17	0.288 B	1	0.03	5
6	0.840 B	2	0.15	0.840 B	2	0.15	0.281 B	1	0.02	6
7	0.730 B	2	0.12	0.760 B	3	0.20	0.273 B	1	0.02	7
8	0.630 B	2	0.11	0.670 B	2	0.12	0.267 B	3	0.07	8
9	0.550 B	2	0.10	0.620 B	2	0.11	0.260 B	3	0.07	9
10	0.500 B	1	0.04	0.580 B	2 S	0.10	0.256 B	2 S	0.04	10
11	0.445 B	3	0.12	0.550 B	2	0.10	0.320 B	2	0.08	11
12	0.405 B	3	0.10	0.520 B	2	0.09	0.395 B	12	0.41	12
13	0.388 B	2 S	0.07	0.515 B	2	0.08	0.335 B	10	0.29	13
14	0.384 B	2	0.08	0.495 B	1	0.04	0.307 B	5	0.13	14
15	0.347 B	3	0.09	0.480 B	3	0.12	1.20 B	4	0.41	15
16	0.329 B	2	0.08	0.465 B	2	0.08	4.80 B	6	3.[illegible]	16
17	0.318 B	2	0.05	0.450 B	1	0.04	3.80 B	6	2.70	17
18	0.340 B	3	0.09	0.435 B	2	0.08	3.80 B	6	1.87	18
19	0.380 B	3	0.10	0.425 B	2	0.07	3.37 B	4	1.16	19
20	3.00 B	4	0.88	0.410 "	2	0.07	5.80 B	10	4.84	20
21	8.80 B	10	7.89	0.397 B	1	0.03	11.8 B	22	22.4	21
22	7.70 B	6	5.32	0.385 B	3	0.07	8.60 B	8	4.10	22
23	5.80 B	3	0.87	0.375 B	1	0.03	5.40 B	5	2.33	23
24	4.40 B	2	0.76	0.365 B	2	0.06	3.20 B	5	1.38	24
25	2.50 B	3	0.65	0.355 B	2	0.06	2.40 B	5	1.34	25
26	1.80 B	3	0.41	0.345 B	2	0.06	2.05 B	4	0.71	26
27	10.5 B	3	2.72	0.338 B	2	0.06	4.50 B	4	1.56	27
28	7.00 B	7	4.23	0.330 B	2	0.06	13.0 B	7	7.86	28
29	4.10 B	7	2.48				11.4 B	5	4.82	29
30	2.55 B	3	0.66				10.0 B	5	4.32	30
31	2.15 B	3	0.96				9.30 B	5	4.02	31
TOTAL	70.147		39.33	17.855		3.07	108.340		70.50	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	8.43	5	3.84	1.35	3 S	0.26	0.844	2	0.11	1
2	7.30	5	2.73	1.25	2	0.22	1.28	3	0.33	2
3	6.22	4	2.15	1.18	2	0.21	1.88	6	1.03	3
4	4.27	3	1.11	1.02	3	0.26	1.30	4	0.45	4
5	3.12	3	0.81	0.884	3 S	0.23	0.956	3	0.26	5
6	3.23	3	0.58	0.888	2	0.15	0.820	3	0.21	6
7	1.89	3	0.49	0.835	2	0.14	0.841	3	0.17	7
8	1.73	3	0.45	0.715	1 S	0.08	1.43	2	0.25	8
9	3.55	5	1.53	0.630	1	0.05	3.69	7	2.35	9
10	10.4	15	14.4	0.570	1	0.05	2.11	6	1.09	10
11	8.89	9	8.78	0.510	2	0.09	1.20	4	0.41	11
12	6.98	4	2.61	0.507	1 S	0.04	0.672	3	0.23	12
13	6.00	3	1.56	0.488	1	0.04	0.703	3	0.24	13
14	4.14	3	1.07	0.474	2	0.08	0.748	4	0.28	14
15	3.07	3 S	0.53	0.422	5 S	0.18	0.734	3	0.19	15
16	2.64	2	0.46	0.388	3	0.10	0.885	3	0.10	16
17	3.89	3 S	0.83	0.330	3	0.09	0.553	4	0.19	17
18	3.02	3 S	0.62	0.348	2	0.09	0.529	4	0.18	18
19	2.28	3 S	0.89	0.356	5 S	0.15	0.431	6 S	0.22	19
20	1.87	2	0.33	0.333	2	0.08	0.336	3	0.09	20
21	1.66	2	0.28	0.319	1 S	0.03	0.304	3	0.08	21
22	1.71	3	0.30	0.310	3 S	0.08	0.258	3	0.06	22
23	2.86	2 S	0.61	1.50	4	0.78	0.225	3	0.04	23
24	5.55	6 S	2.80	5.09	14	8.05	0.267	3	0.06	24
25	3.88	3 S	1.01	4.26	12	4.42	0.288	1	0.03	25
26	2.98	6 S	1.39	2.34	6	0.81	0.275	3	0.06	26
27	2.48	3 S	0.64	1.45	4	0.50	0.248	3	0.04	27
28	2.06	2 S	0.38	1.06	4	0.37	0.283	3	0.05	28
29	1.78	2	0.31	0.874	3	0.23	0.385	1	0.03	29
30	1.86	3	0.27	0.702	3	0.18	0.693	1	0.04	30
31				0.653	3	0.16				31
TOTAL	118.01		51.92	31.937		16.14	24.758		5.77	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1985

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.386	1	0.03	8.43	8 S	7.23	0.854	5 S	0.44	1
2	0.308	1	0.03	4.43	6 S	2.30	0.672	5	0.29	2
3	0.450	1	0.04	3.38	10 S	2.06	0.834	6	0.43	3
4	0.483	1	0.04	4.85	8 S	3.35	0.711	12 S	0.74	4
5	0.391	1	0.03	3.56	4	1.23	0.573	5	0.30	5
6	0.324	1	0.03	1.78	6	0.82	0.508	6	0.18	6
7	0.265	2	0.05	1.15	6	0.60	0.540	4	0.19	7
8	0.256	2	0.04	0.843	2	0.15	0.524	3 S	0.14	8
9	0.233	2	0.04	2.24	7	1.36	0.414	2	0.07	9
10	0.202	1	0.02	3.36	5	1.45	0.382	3	0.06	10
11	0.187	2	0.03	2.06	3	0.53	0.407	2 S	0.07	11
12	0.187	2	0.03	1.40	4	0.48	1.12	4	0.38	12
13	0.183	1	0.01	0.906	4	0.31	2.84	8	2.03	13
14	0.154	3	0.04	0.837	4	0.32	1.67	3	0.43	14
15	0.230	4	0.08	0.536	4	0.18	0.955	4	0.33	15
16	0.280	4	0.10	0.474	4	0.15	0.823	4	0.28	16
17	0.264	4	0.12	1.44	8	1.00	1.06	4	0.37	17
18	0.277	4	0.10	1.15	5	0.50	0.780	2	0.13	18
19	0.272	3	0.07	0.652	4	0.20	0.616	3	0.16	19
20	0.238	3	0.06	0.845	4	0.33	0.549	3	0.14	20
21	0.201	2	0.03	0.823	4 S	0.28	0.478	4	0.17	21
22	0.183	3	0.03	0.606	3	0.15	0.427	3	0.11	22
23	0.148	3 S	0.04	0.521	4	0.18	0.488	5	0.20	23
24	0.126	3 S	0.03	1.23	4	0.43	2.40	8	1.87	24
25	0.123	4	0.04	4.89	6 S	2.83	1.88	6 S	1.03	25
26	0.109	3	0.03	2.31	7 S	1.40	1.48	4	0.51	26
27	0.153	3	0.04	1.78	4	0.82	1.08	4	0.37	27
28	2.03	8 S	1.40	8.20	8 S	4.04	0.841	4	0.29	28
29	7.48	10 S	6.47	3.88	6 S	1.69	0.888	3	0.18	29
30	3.83	5 S	1.85	1.84	4	0.67	0.877	3	0.25	30
31	0.60	10 S	0.52	1.11	4	0.38				31
TOTAL	28.631		16.16	88.541		37.06	27.761		12.15	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	1.40	3	0.36	0.475	1	0.04	1.90 E	6 S	0.98	1
2	1.16	3	0.30	0.537	1	0.05	1.62 E	3 S	0.42	2
3	0.863	2	0.15	0.823	2	0.16	4.30 E	3 S	1.11	3
4	0.894	3	0.26	0.748	1	0.06	10.5 A	4 S	3.63	4
5	1.25	3	0.32	0.870	2	0.12	5.38	3	1.40	5
6	1.01	3	0.26	0.808	1	0.06	3.38	3	0.88	6
7	1.61	3	0.26	0.566	1	0.05	2.61	3	0.65	7
8	1.18	3	0.30	0.579	1	0.05	2.02	3	0.52	8
9	0.906	3	0.18	1.26	1	0.11	1.77	3	0.46	9
10	0.934	3	0.18	3.30	2	0.57	1.64 B	3	0.43	10
11	0.797	3	0.14	1.81	1	0.17	1.50 B	3	0.38	11
12	0.276	3	0.18	1.43	1	0.13	1.37 B	3	0.24	12
13	0.590	3	0.10	1.36	2	0.24	1.28 B	3	0.33	13
14	0.621	3	0.11	1.18	2	0.20	1.18 B	3	0.31	14
15	2.08	3	0.54	1.12	2	0.19	1.10 B	3	0.18	15
16	1.54	2	0.27	0.821	3 S	0.14	1.01 B	3	0.17	16
17	1.06	1	0.09	0.611 A	1 S	0.07	0.940 B	3	0.24	17
18	1.05	1	0.09	0.760 E	1	0.07	0.900 B	4	0.31	18
19	1.04	1	0.08	0.880 E	2	0.13	0.850 B	3	0.22	19
20	0.881	1	0.06	1.80 E	3 S	0.26	0.800 B	3	0.21	20
21	0.786	2	0.13	8.80 E	2	1.84	0.885 B	3	0.22	21
22	0.803	1 S	0.07	4.20 E	9 S	3.57	0.835 B	3	0.14	22
23	0.607	1 S	0.07	2.30 E	5 S	1.15	0.810 B	3	0.16	23
24	0.713	2	0.12	2.95 E	7 S	1.98	0.780 B	3	0.20	24
25	0.638	3	0.17	3.85 E	4 S	1.33	0.760 B	3	0.13	25
26	0.581	1	0.05	2.80 E	3	0.73	3.00 B	5	0.88	26
27	0.584	1	0.05	5.95 E	5 S	2.57	1.55 B	3	0.41	27
28	0.578	1	0.05	3.45 E	4	1.19	1.35 B	3	0.35	28
29	0.583	1	0.05	2.60 E	4	0.87	1.30 B	4	0.41	29
30	0.557	2	0.10	2.35 E	4	0.81	1.10 B	3	0.28	30
31	0.606	2	0.08				1.00 B	3	0.17	31
TOTAL	28.805		5.07	80.760		18.33	66.280		18.41	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1985

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN	13 15:00	0.5	0.388	B	10LB	DH48	2															
FEB	10 14:00	0.5	0.580	B	10LB	DH48	2															
MAR	10 15:00	0.0	0.256	B	10LB	DH48	2															
APR	15 11:00	7.0	2.86		10LB	DH48	1															
APR	15 11:00		2.95		10LB	PWS	2															
APR	17 16:00		3.69		10LB	PWS	3															
APR	18 04:00		3.51		10LB	PWS	1															
APR	18 16:00		2.68		10LB	PWS	2															
APR	19 04:00		2.35		10LB	PWS	3															
APR	23 16:00		2.58		10LB	PWS	1															
APR	24 04:00		5.08		10LB	PWS	10															
APR	24 16:00		5.27		10LB	PWS	5															
APR	25 04:00		4.21		10LB	PWS	3															
APR	25 16:00		3.53		10LB	PWS	4															
APR	26 04:00		3.07		10LL	PWS	11															
APR	26 16:00		2.71		10LB	PWS	2															
APR	27 04:00		2.62		10LB	PWS	2															
APR	27 16:00		2.37		10LB	PWS	8															
APR	28 16:00		1.99		10LB	PWS	2															
MAY	01 16:00		1.30		10LB	PWS	3															
MAY	05 16:00		0.840		10LB	PWS	1															
MAY	08 16:00		0.673		10LB	PWS	1															
MAY	12 16:00		0.500		10LB	PWS	1															
MAY	15 16:00		0.385		10LB	PWS	5															
MAY	19 16:00		0.380		10LB	PWS	11															
MAY	21 13:00	14.5	0.317		10LB	DH48	1															
MAY	22 16:00		0.317		10LB	PWS	7															
JUN	18 08:45		0.446		10LB	PWS	6															
JUN	19 11:30	17.0	0.446		10LB	DH48	1															
JUN	19 16:00		0.419		10LB	PWS	21															
JUL	23 08:10		0.147		10LB	PWS	3															
JUL	24 16:00		0.120		10LB	PWS	3															
JUL	28 16:00		0.725		10LB	PWS	9															
JUL	29 04:00		8.58		10LB	PWS	19															
JUL	29 16:00		8.82		10LB	PWS	8															
JUL	30 04:00		4.24		10LB	PWS	4															
JUL	30 16:00		3.30		10LB	PWS	6															
JUL	31 04:00		2.41		10LB	PWS	5															
AUG	01 04:00		12.2		10LB	PWS	12															
AUG	01 16:00		7.88		10LB	PWS	10															
AUG	02 04:00		5.27		10LB	PWS	6															
AUG	02 16:00		3.80		10LB	PWS	7															
AUG	03 04:00		2.71		10LB	PWS	11															
AUG	04 04:00		3.18		10LB	PWS	10															
AUG	21 09:00		0.830		10LB	PWS	4															
AUG	21 16:00		0.782		10LB	PWS	3															
AUG	25 04:00		5.86		10LB	PWS	7															
AUG	25 16:00		4.62		10LB	PWS	6															
AUG	26 04:00		3.01		10LB	PWS	10															
AUG	26 04:00		5.80		10LB	PWS	10															
AUG	26 16:00		4.99		10LB	PWS	10															
AUG	29 04:00		3.73		10LB	PWS	8															
AUG	29 16:00		2.62		10LB	PWS	5															
SEP	01 16:00		0.830		10LB	PWS	7															
SEP	04 16:00		0.855		10LB	PWS	15															
SEP	08 16:00		0.521		10LB	PWS	4															
SEP	11 16:00		0.380		10LB	PWS	2															
SEP	25 09:15		1.98		10LB	PWS	15															
SEP	25 09:30	10.5	1.98		10LB	DH48	1															
SEP	25 16:00		1.92		10LB	PWS	5															
OCT	22 13:10	7.0	0.880		10LB	DH48	1															
OCT	23 01:00		0.900		10LB	PWS	1															
NOV	16 23:00		0.820		10LB	PWS	3															
NOV	17 12:20		0.801		10LB	PWS	4															
NOV	17 12:45	1.0	0.801		10LB	DH48	1															
NOV	17 13:45		0.801		10LB	PWS	5															
NOV	17 16:00		0.801	E	10LB	PWS	2															
NOV	20 16:00		1.50	E	10LB	PWS	2															
NOV	22 04:00		4.20	E	10LB	PWS	4															
NOV	22 16:00		4.20	E	10LB	PWS	20															
NOV	23 04:00		2.85	E	10LB	PWS	10															
NOV	23 16:00		2.85	E	10LB	PWS	4															
NOV	24 04:00		2.85	E	10LB	PWS	8															
NOV	24 16:00		3.85	E	10LB	PWS	8															
NOV	25 04:00		3.85	E	10LB	PWS	7															
NOV	27 16:00		5.95	E	10LB	PWS	5															
DEC	01 04:00		1.80	E	10LB	PWS	7															
DEC	01 16:00		1.80	E	10LB	PWS	5															
DEC	02 04:00		1.62	E	10LB	PWS	4															
DEC	02 16:00		1.62	E	10LB	PWS	2															
DEC	03 04:00		4.30	E	10LB	PWS	3															
DEC	03 16:00		4.30	E	10LB	PWS	1															
DEC	04 04:00		11.0	E	10LB	PWS	4															
DEC	04 13:30	3.5	11.3		10LB	DH48	5															

NOTE - SINGLE VERTICAL LOCATED AT 10LB (ONE QUARTER THE DISTANCE FROM THE LEFT BANK) FOR 1985

DISCHARGE SYMBOL(S): B - ICE CONDITIONS E - ESTIMATED

NOVA SCOTIA

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY - JAN-DEC MEAN LOAD (TONNES)	SUMMARY - JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY - JAN-DEC STANDARD ERROR OF MEAN %
1971	CCCCCCCCCCCC	AUTO	16 OCT 11		0 JUN 15	*	15.2 APR 15		251	0.88	0.88	---
1972	CCCCCCCCCCCC	AUTO	71 MAY 04	*	0 JUN 27		252 MAY 04	*	935 *	2.56	1.63	57.4
1973	----PCCCCCCC	AUTO	24 JUN 17		0 OCT 25		8.98 JUN 17		143	---	---	---
1974	------CCCCCC	MANUAL	14 DEC 10		1 OCT 06		35.2 NOV 26		185	---	---	---
1975	CCCCCCCCCCCC	MANUAL	9 APR 21		1 JAN 06		168 NOV 14		530	1.45	1.57	34.6
1976	CCCCCCCCCCCC	MANUAL	27 AUG 30		1 MAR 01		83.7 JAN 28		585	1.67	1.54	23.9
1977	CCCCCCCCCCCC	MANUAL	18 JUL 13		2 FEB 14		85.1 OCT 02		548	1.50	1.61	18.9
1978	CCCCCCCCCCCC	MANUAL	5 MAR 07		1 APR 17		77.9 APR 21		264	0.72	1.47	19.7
1979	CCCCCCCCCCCC	MANUAL	30 JAN 03		1 FEB 06		70.6 MAR 15		551	1.51	1.47	16.7
1980	CCCCCCCCCCCC	MANUAL	5 APR 21		1 JAN 21		50.2 DEC 04		272	0.74	1.38	15.7
1981	CCCCCCCCCCCC	MANUAL	8 OCT 19		1 JAN 05		108 DEC 03		481	1.32	1.37	14.9
1982	CCCCCCCCCCCC	MANUAL	7 MAY 19		1 JAN 12		28.9 APR 29		200	0.55	1.28	15.5
1983	CCCCCCCCCCCC	DUAL	7 MAY 03		1 APR 21		19.7 DEC 14		207	0.57	1.23	15.6
1984	CCCCCCCCCCCC	DUAL	33 AUG 16		1 MAR 05		13.4 JUL 08		174	0.48	1.16	16.1
1985	CCCCCCCCCCCC	DUAL	7 AUG 05		1 JAN 07		8.47 APR 07		75.9	0.22	1.08	17.1
1986	CCCCCCCCCCCC	DUAL	21 JUN 19		1 APR 15		22.4 MAR 21		267	0.78	1.07	16.2

AUTO - AUTOMATIC SAMPLING DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PEMBROKE RIVER AT GLENDERVIE - STATION NO. 01DC018

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 45 15 54 N LONG 62 56 29 W
DRAINAGE AREA: 73.3 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 452 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	1.70 B	6 S	0.88	1.85 B	1	0.14	0.390 B	1	0.03	1
2	2.10 B	5	0.81	1.35 B	1	0.12	0.385 B	1	0.03	2
3	1.30 B	2	0.22	1.15 B	1	0.10	0.380 B	1	0.03	3
4	2.40 B	5	1.04	1.00 B	1	0.08	0.375 B	1 S	0.03	4
5	4.30 B	6	2.23	0.930 B	1	0.08	0.370 B	1	0.03	5
6	3.00 B	3	0.78	0.880 B	1	0.07	0.370 B	1	0.03	6
7	2.10 B	3	0.54	0.800 B	1	0.07	0.385 B	1	0.03	7
8	1.70 B	3	0.44	0.720 B	1	0.06	0.382 B	1	0.03	8
9	1.50 B	3	0.39	0.670 B	1	0.06	0.380 B	1	0.03	9
10	1.30 B	3	0.34	0.830 B	1	0.05	0.355 B	1	0.03	10
11	1.18 B	3	0.31	0.800 B	2	0.10	0.800 B	1	0.05	11
12	1.12 B	2	0.19	0.586 B	4 S	0.20	0.851 B	2 S	0.16	12
13	1.05 B	2	0.18	0.545 B	2	0.09	1.40 B	2	0.24	13
14	0.980 B	2	0.17	0.530 B	1	0.05	1.80 B	2	0.33	14
15	0.950 B	2	0.18	0.520 B	1	0.04	2.70 B	3	0.70	15
16	0.930 B	3	0.24	0.500 B	1	0.04	4.40 B	6	2.28	16
17	0.900 B	3	0.23	0.490 B	1	0.04	7.00 B	3	1.81	17
18	0.870 B	3	0.23	0.480 B	1	0.04	5.00 B	2	0.86	18
19	0.860 B	3	0.22	0.470 B	1	0.04	3.50 B	3	0.91	19
20	5.00 B	35	15.1	0.460 B	1	0.04	15.0 B	33 S	42.8	20
21	21.0	20 S	38.3	0.450 B	1	0.04	11.0 B	12	11.4	21
22	7.51	10	8.48	0.440 B	1	0.04	8.00 B	10	7.78	22
23	4.88	6 S	2.53	0.435 B	1	0.04	7.00 B	8	4.84	23
24	3.30 B	5	1.43	0.430 B	1	0.04	5.28	7 S	3.20	24
25	2.30 B	4	0.78	0.420 B	1	0.04	4.33	8	2.24	25
26	3.30 B	6	1.71	0.410 B	1	0.04	3.20	5	1.38	26
27	6.81	20 S	11.9	0.405 B	1	0.03	5.48	6	2.85	27
28	20.3	59 S	103	0.400 B	1	0.03	8.88	10 S	7.50	28
29	3.00 B	8	2.07				6.48	5	2.80	29
30	2.20 B	1 S	0.19				5.73	4	1.98	30
31	2.00 B	1	0.17				8.89	8	8.01	31
TOTAL	111.940		191.38	18.331		1.82	121.053		102.42	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	9.83	8	4.99	1.86	1	0.16	0.353	1 S	0.03	1
2	8.22	4	2.84	3.44	4	0.84	0.550	2 S	0.10	2
3	8.38	4	2.90	3.86	4 S	1.26	1.03	3	0.27	3
4	5.64	3 S	1.45	2.88	2	0.48	0.771	1	0.07	4
5	4.15	3	1.08	1.93	2	0.33	0.588	1	0.05	5
6	3.38	3	0.88	1.59	2	0.27	0.439	1	0.04	6
7	2.79	3	0.72	1.46	2	0.25	0.226	1	0.02	7
8	2.39	3	0.62	1.23	2	0.21	0.538	3 S	0.14	8
9	2.72	3 S	0.71	1.07	2	0.18	1.27	3 S	0.33	9
10	7.31	8 S	3.78	0.974	2	0.17	0.843	2	0.11	10
11	6.86	2 S	1.19	0.888	2	0.15	0.485	2	0.08	11
12	5.85	2	1.01	0.813	2 S	0.14	0.409	3	0.11	12
13	6.01	2 S	1.04	0.814	1	0.08	0.371	3 S	0.10	13
14	5.19	1	0.45	0.728	2	0.13	1.05	3 S	0.27	14
15	4.31	1	0.37	0.651	3	0.14	0.726	1	0.06	15
16	4.40	2 S	0.76	0.582	5 S	0.24	0.839	1	0.05	16
17	6.51	2	1.12	0.479	3 S	0.12	0.430	2 S	0.07	17
18	4.74	2	0.82	0.588	2	0.10	0.448	2	0.08	18
19	3.44	2	0.59	0.584	2	0.10	0.384	2	0.06	19
20	2.85	3	0.49	0.483	2	0.08	0.270	1	0.02	20
21	2.73	3 S	0.71	0.424	2	0.07	0.211	1	0.02	21
22	2.96	3	0.76	0.416	1	0.04	0.213	1	0.02	22
23	3.76	4	1.30	0.463	1 S	0.04	0.174	1	0.02	23
24	5.69	4 S	1.97	0.823	1	0.08	0.214	1	0.02	24
25	6.00	3	1.56	0.788	1	0.07	0.240	1	0.02	25
26	4.67	1	0.40	0.574	1	0.05	0.152	1	0.01	26
27	3.78	1	0.33	0.480	1	0.04	0.189	1	0.02	27
28	2.87	1	0.26	0.399	1	0.03	0.305	3 S	0.08	28
29	2.83	1	0.23	0.350	1	0.03	0.488	2 S	0.09	29
30	2.24	1	0.18	0.288	1	0.02	0.483	1	0.04	30
31				0.262	1	0.02				31
TOTAL	142.10		35.62	30.714		5.80	14.134		2.40	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

PEMBROKE RIVER AT GLENBERVIE - STATION NO. 01DG018

SUSPENDED SEDIMENT FOR 1985

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.418	1	0.04	3.23	5	1.40	0.826	1	0.07	1
2	0.361	1	0.03	2.63	4	0.91	0.676	1	0.08	2
3	0.552	2 S	0.10	1.76	2	0.30	0.592	1 S	0.05	3
4	0.738	2	0.13	2.39	3 S	0.82	0.485	1	0.04	4
5	0.853	1	0.08	1.89	1	0.18	0.422	1	0.04	5
6	0.808	1	0.05	1.32	1	0.11	0.315	1	0.03	6
7	0.547	1	0.05	0.868	1	0.07	0.491	1 S	0.04	7
8	0.474	1	0.04	0.837	1	0.07	0.482	1	0.04	8
9	0.444	1	0.04	0.786	1	0.07	0.358	1	0.03	9
10	0.430	1	0.04	0.848	1	0.07	0.350	1 S	0.03	10
11	0.234	1 S	0.02	0.881	1	0.08	0.673	2 S	0.12	11
12	0.077	1	0.01	0.504	1	0.04	1.25	2 S	0.22	12
13	0.073	1	0.01	0.480	1	0.04	0.906	1	0.08	13
14	0.186	1	0.02	0.414	1	0.04	0.654	1	0.06	14
15	1.15	4 S	0.40	0.370	1	0.03	0.480	1	0.04	15
16	0.845	2	0.15	0.264	1	0.02	2.39	3 S	0.62	16
17	0.520	2	0.09	0.680	2 S	0.12	8.90	7 S	5.38	17
18	0.278	1	0.02	0.638	2	0.11	3.33	3	0.86	18
19	0.858	2 S	0.11	0.578	2 S	0.10	2.14	3 S	0.55	19
20	0.428	1	0.04	0.802	2	0.14	1.65	3	0.43	20
21	0.361	1	0.03	0.557	1	0.05	1.23	2	0.21	21
22	0.268	1	0.02	0.502	1	0.04	0.983	1	0.09	22
23	0.244	1	0.02	0.378	1	0.03	1.22	2 S	0.21	23
24	0.181	1	0.02	0.298	1	0.03	5.00	7 S	3.63	24
25	0.131	1	0.01	1.17	2 S	0.20	4.35	3 S	1.13	25
26	0.265	3	0.07	0.950	1	0.08	3.30	3	0.86	26
27	0.137	2 S	0.02	0.862	1	0.07	2.82	2	0.49	27
28	3.86	6	1.89	1.85 A	2 S	0.34	2.15	2	0.37	28
29	21.7	16	30.0	1.55	1	0.13	1.70	2	0.29	29
30	10.7	12	11.1	1.08	1	0.08	1.89	2 S	0.33	30
31	5.07	6 S	2.63	0.869	1	0.08				31
TOTAL	52.385		47.26	32.098		5.82	53.013		16.40	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	2.13	1	0.18	0.800 E	1	0.07	3.33	1	0.30	1
2	1.90	1	0.15	0.780 E	1 S	0.07	1.86 B	1 S	0.17	2
3	1.80	1	0.14	0.820 E	1 S	0.07	2.25 B	4 S	0.78	3
4	1.57	1	0.14	0.891	1	0.08	7.34	8 S	5.07	4
5	1.74	2	0.30	0.747	1	0.08	4.59	2	0.79	5
6	1.42	1	0.12	0.749	1 S	0.05	3.11	2	0.54	6
7	1.37	2	0.24	0.847	1	0.08	2.31	2	0.40	7
8	1.23	1	0.11	0.848	1	0.08	1.82	1	0.16	8
9	1.15	1	0.10	1.01	1 S	0.09	1.55 B	2	0.27	9
10	1.12	1	0.10	1.92	1 S	0.17	1.28 B	2	0.22	10
11	1.02	1	0.09	1.48	1	0.13	1.12 B	2	0.19	11
12	0.882	1	0.08	1.22	1	0.11	1.00 B	1	0.08	12
13	0.876	1	0.08	1.05 B	1	0.09	0.900 B	1	0.08	13
14	1.12	3 S	0.29	0.830 B	1	0.07	0.810 B	3	0.21	14
15	3.33	5	1.44	1.01	1	0.09	0.780 B	3	0.20	15
16	1.93	2 S	0.33	0.933	1	0.08	0.705 B	4	0.24	16
17	1.62	2	0.26	0.841	1	0.08	0.685 B	7 S	0.41	17
18	1.97	3	0.51	0.874	1	0.08	0.635 B	3	0.18	18
19	1.83	2	0.28	0.827	1	0.07	0.610 B	1	0.05	19
20	1.43	1	0.12	0.786	1	0.07	0.580 B	1	0.05	20
21	1.15	1	0.10	1.06	2 S	0.18	0.580 B	1	0.05	21
22	1.20	1	0.10	4.27	4	1.48	0.780 B	2	0.13	22
23	1.08	1	0.09	2.53	1	0.22	0.785 B	2 S	0.14	23
24	1.03	0	0	8.03	8 S	5.24	0.550 B	2	0.10	24
25	0.863	1	0.08	11.5	6 S	5.86	0.580 B	2	0.10	25
26	0.880 E	1	0.08	4.84	2	0.84	2.72 B	6 S	1.41	26
27	0.850 E	1 S	0.08	9.86	7 S	5.84	2.10 B	2	0.36	27
28	0.800 E	1	0.08	6.50	1	0.56	1.50 B	3	0.39	28
29	0.880 E	1	0.08	4.34	1	0.37	1.10 B	4	0.38	29
30	0.880 E	1	0.07	3.18	1	0.27	0.780 B	4 S	0.26	30
31	0.840 E	1	0.07				0.625 B	4	0.22	31
TOTAL	41.751		5.80	75.463		23.66	48.385		13.62	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PEMBROKE RIVER AT GLENBERVIE - STATION NO. 01DG018

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 01	14:30	0.3	1.70	B	6.7	D49	6	53														
JAN 21	08:20	0.1	23.9		6.7	D49	22															
JAN 23	16:00	2.0	4.48		6.7	D49	5															
JAN 27	15:45	2.0	8.23		6.7	D49	22															
JAN 28	10:00	0.1	24.9		6.7	D49	74															
JAN 30	15:00	0.2	2.00	B	6.7	D49	1															
FEB 12	14:50	0.1	0.588	B	6.7	D49	6															
MAR 04	14:00	0.5	0.375	B	6.7	D49	1															
MAR 12	15:00	0.1	0.951	B	6.7	D49	2															
MAR 20	17:30	0.5	27.9		6.7	D49	28															
MAR 24	15:00	1.0	5.72		6.7	D49	7															
MAR 28	17:10	2.0	10.5		6.7	D49	9															
APR 04	16:40	1.5	6.03		6.7	D49	3															
APR 09	16:20	2.5	2.87		6.7	D49	2															
APR 10	15:50	3.0	11.9		6.7	D49	7															
APR 11	13:15	3.5	6.54		6.7	D49	2															
APR 13	12:30	4.5	4.92		6.7	D49	1															
APR 16	15:50	3.0	7.75		6.7	D49	2															
APR 21	15:45	8.5	3.05		6.7	D49	3															
APR 24	20:50	7.5	6.74		6.7	D49	4															
MAY 03	13:25	8.5	3.85		6.7	D49	2															
MAY 12	16:00	7.0	0.884		6.7	D49	2															
MAY 16	08:00	8.5	0.676		6.7	D49	5															
MAY 17	20:05	11.5	0.848		6.7	D49	2															
MAY 23	16:00	15.5	0.574		6.7	D49	1															
JUN 02	14:00	13.5	0.433		6.7	D49	1															
JUN 03	20:08	12.0	0.975		6.7	D49	5															
JUN 08	12:08	13.5	0.589		6.7	D49	2															
JUN 09	08:00	12.0	1.85		6.7	D49	2															
JUN 13	08:00	10.5	0.477		6.7	D49	3	71														
JUN 14	16:00	13.0	1.32		6.7	D49	1															
JUN 17	15:50	16.0	0.855		6.7	D49	3															
JUN 26	14:10	14.0	0.454		6.7	D49	5															
JUN 29	13:25	14.5	0.613		6.7	D49	2															
JUL 03	09:38	14.0	0.530		6.7	D49	2															
JUL 11	08:30	15.5	0.241		6.7	D49	1															
JUL 15	10:05	14.0	1.50		6.7	D49	4															
JUL 18	10:15	16.5	0.763		6.7	D49	2															
JUL 27	12:25	19.5	0.241		6.7	D49	2															
JUL 31	10:30	14.5	8.03		6.7	D49	6	53														
AUG 04	11:30	17.0	3.12		6.7	D49	8															
AUG 17	13:15	19.0	0.975		6.7	D49	3															
AUG 19	15:00	17.0	0.898		6.7	D49	2															
AUG 25	10:18	15.0	1.71		6.7	D49	2															
AUG 28	08:50	17.0	2.40		6.7	D49	2															
SEP 03	16:00	14.5	0.591		6.7	D49	1															
SEP 07	11:00	15.0	0.633		6.7	D49	2															
SEP 10	12:30	13.0	0.428		6.7	D49	1															
SEP 11	18:00	14.5	0.826		6.7	D49	2	54														
SEP 12	07:50	14.0	1.77		6.7	D49	3															
SEP 16	15:45	9.0	0.975		6.7	D49	3															
SEP 17	09:48	10.0	13.3		6.7	D49	6															
SEP 19	18:00	11.0	2.42		6.7	D49	3															
SEP 23	16:40	9.5	1.12		6.7	D49	1															
SEP 24	16:00	10.0	7.27		6.7	D49	3	52														
SEP 25	15:50	11.0	5.80		6.7	D49	3															
SEP 30	14:45	11.0	2.25		6.7	D49	3															
OCT 14	15:40	10.0	1.00		6.7	D49	3															
OCT 16	15:50	9.5	2.29		6.7	D49	2															
OCT 27	16:15	5.5	1.16		6	D49	1															
NOV 02	20:00	6.0	0.884		6.7	D49	1	54														
NOV 03	14:00	5.5	1.09		6.7	D49	1															
NOV 08	19:10	2.0	0.830		6.7	D49	1															
NOV 09	08:34	7.0	1.07		6.7	D49	1															
NOV 10	10:45	5.0	2.25		6.7	D49	1															
NOV 21	16:40	1.0	1.19		6.7	D49	1															
NOV 24	10:00	2.0	2.40		6.7	D49	1															
NOV 25	09:30	0.1	15.3		6.7	D49	7															
NOV 27	08:50	4.5	13.7		6.7	D49	15	29														
DEC 02	15:58	0.5	2.25	B	6.7	D49	1															
DEC 03	16:00	0.5	2.55		6.7	D49	6															
DEC 04	09:30	0.5	9.80		6.7	D49	9															
DEC 17	15:20	0.1	0.885		6.7	D49	7															
DEC 23	11:30	0.3	1.88		6.7	D49	2															
DEC 26	09:00	0.3	2.72	B	6.7	D49	10															
DEC 30	17:00	0.1	0.760	B	6.7	D49	5															

NOTE : SINGLE VERTICAL LOCATED AT 6.7 METRES FOR 1986

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

NOVA SCOTIA

PEMBROKE RIVER AT GLENBERVIE - STATION NO. 01DG018

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1978	CCCCCCCCCCCC	MANUAL	10	OCT 16	1	FEB 20	36.8	JAN 15	193	0.53	0.53	---
1979	CCCCCCCCCCCC	MANUAL	86	DEC 17	1	FEB 16	97.5	DEC 17	618 *	1.69	1.11	52.2
1980	CCCCCCCCCCCC	MANUAL	51	APR 05	1	JAN 19	88.1	APR 05	484	1.27	1.16	29.2
1981	CCCCCCCCCCCC	MANUAL	59	NOV 21	1	JAN 11	111	NOV 21	535	1.47	1.24	20.3
1982	CCCCCCCCCCCC	MANUAL	45	APR 29	1	JAN 01	116	APR 29	352	0.86	1.18	17.2
1983	CCCCCCCCCCCC	MANUAL	31	MAR 22	1	JAN 23	42.9	MAR 22	407	1.11	1.17	14.2
1984	CCCCCCCCCCCC	MANUAL	107	APR 17 *	1	JAN 05	129	MAR 16 *	574	1.57	1.23	12.3
1985	CCCCCCCCCCCC	MANUAL	75	JUN 17	0	NOV 11 *	67.4	JUN 17	355	0.87	1.20	11.3
1986	CCCCCCCCCCCC	MANUAL	78	JAN 28	1	JAN 30	103	JAN 28	452	1.24	1.20	9.9

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

* - EXTREME FOR PERIOD OF RECORD

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1986

LOCATION: LAT 46 12 07 N LONG 62 39 23 W
DRAINAGE AREA: 33.1 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 553 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.627	11	0.80	0.587	4	0.20	0.458	3	0.12	1
2	0.625	12 S	0.85	0.603	5	0.26	0.463	3	0.12	2
3	0.484	3	0.13	0.559	2	0.10	0.468	3	0.12	3
4	0.523	3	0.14	0.559	2 S	0.10	0.464	3 S	0.12	4
5	0.510	3	0.13	0.559	2	0.10	0.460	3	0.12	5
6	0.493	3	0.13	0.535	3	0.14	0.458	3	0.12	6
7	0.480	3 S	0.12	0.542	2 S	0.09	0.494	2 S	0.09	7
8	0.480	3	0.12	0.531	2	0.09	0.488	2	0.08	8
9	0.452	3	0.12	0.512	3	0.13	0.460	2	0.08	9
10	0.448	3 S	0.12	0.513	4	0.18	0.485	2	0.08	10
11	0.437	2	0.08	0.498	7 S	0.30	0.501	2 S	0.09	11
12	0.464	3	0.12	0.499	5	0.22	0.518	2	0.09	12
13	0.434	3	0.11	0.504	3	0.13	0.510	2	0.09	13
14	0.462	3	0.12	0.486	4 S	0.17	0.454	2 S	0.08	14
15	0.451	3	0.12	0.491	4	0.17	0.534	3	0.14	15
16	0.436	3	0.11	0.472	4	0.16	0.564	7	0.34	16
17	0.416	3 S	0.11	0.467	3	0.12	0.518	7	0.31	17
18	0.421	4	0.15	0.464	3 S	0.12	0.480	8 S	0.37	18
19	0.458	5	0.20	0.464	3	0.12	0.523	10	0.45	19
20	3.48	135 S	40.6	0.429	3	0.11	1.90	55 S	9.03	20
21	3.71	144 S	46.2	0.421	4 S	0.15	1.95	43 S	7.24	21
22	0.976	32	2.70	0.488	6	0.22	1.34	14 S	1.62	22
23	0.711	46 S	2.83	0.511	6	0.22	0.947	10	0.82	23
24	0.562	9	0.44	0.469	4	0.16	0.775	9	0.60	24
25	0.510	3 S	0.13	0.476	5 S	0.21	0.707	8 S	0.37	25
26	0.480	3	0.12	0.491	4	0.17	0.848	10	0.73	26
27	2.01	80 S	13.9	0.474	3	0.12	5.05	86 S	28.8	27
28	1.85	114 S	18.2	0.459	3 S	0.12	3.28	74 S	21.0	28
29	0.804	23	1.60				1.84	25 S	3.54	29
30	0.678	10 S	0.59				2.48	54 S	11.6	30
31	0.805	6 S	0.31				5.08	195 S	85.5	31
TOTAL	25.437		131.00	14.074		4.38	35.255		173.96	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	2.75	342 S	81.3	1.17	3	0.30	0.585	3	0.15	1
2	2.54	187 S	41.0	1.21	4 S	0.42	0.567	6	0.35	2
3	2.02	24	4.19	1.18	6	0.61	0.669	9 S	0.52	3
4	1.48	16	2.05	1.11	2	0.19	0.588	5	0.25	4
5	1.34	18 S	2.08	1.07	2	0.18	0.551	3	0.14	5
6	1.22	14	1.48	1.04	1 S	0.09	0.539	5 S	0.23	6
7	1.23	10	1.06	0.988	1	0.09	0.508	4	0.18	7
8	1.32	5 S	0.57	0.978	1	0.08	0.851	64 S	4.71	8
9	1.21	7	0.73	0.954	2 S	0.16	1.18	37	3.77	9
10	2.02	50 S	8.73	0.913	3	0.24	0.884	17 S	0.88	10
11	3.60 A	26 S	8.09	0.880	2	0.15	0.800	12	0.62	11
12	3.13 A	13	3.52	0.868	3	0.22	0.561	9	0.44	12
13	1.22	8	0.85	0.851	3 S	0.22	0.535	6 S	0.28	13
14	1.22	7	0.74	0.820	3	0.21	0.534	6	0.23	14
15	1.24	8	0.86	0.798	3	0.21	0.529	4	0.18	15
16	1.57	57 S	7.73	0.780	2 S	0.13	0.516	4	0.18	16
17	2.66	65 S	14.9	0.767	3	0.20	0.527	4 S	0.18	17
18	1.61	7	0.97	0.761	2	0.13	0.500	4	0.17	18
19	1.40	4 S	0.48	0.745	3	0.18	0.474	3	0.12	19
20	1.38	4	0.48	0.711	2 S	0.12	0.488	4 S	0.16	20
21	1.38	4	0.48	0.717	2	0.12	0.483	4	0.16	21
22	1.46	6 S	0.78	0.688	2	0.12	0.445	5	0.19	22
23	1.60	12	1.55	0.670	6 S	0.35	0.448	8	0.23	23
24	1.58	8	1.21	0.785	9	0.61	0.462	6 S	0.24	24
25	1.46	7 S	0.88	0.744	5	0.32	0.484	6	0.24	25
26	1.42	2	0.25	0.668	5	0.29	0.480	6	0.24	26
27	1.35	3	0.35	0.643	4 S	0.22	0.446	6 S	0.23	27
28	1.32	3	0.34	0.626	4	0.22	0.452	7	0.27	28
29	1.28	8 S	0.88	0.614	6	0.27	0.492	15 S	0.62	29
30	1.21	3	0.31	0.613	4 S	0.21	0.484	10	0.42	30
31				0.801	4	0.21				31
TOTAL	50.08		188.03	25.975		7.08	16.843		18.88	TOTAL

A - MANUAL GAUGE

S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1986

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.444	8 S	0.35	0.514	5 S	0.22	0.342	3	0.08	1
2	0.418	8	0.33	0.420	5	0.18	0.342	3 S	0.09	2
3	0.432	8	0.30	0.393	3	0.10	0.348	3	0.08	3
4	0.430	7 S	0.26	0.404	3	0.11	0.337	3	0.09	4
5	0.427	7	0.25	0.392	3 S	0.10	0.331	3 S	0.08	5
6	0.411	6	0.21	0.375	3	0.10	0.331	3	0.08	6
7	0.384	5	0.18	0.362	3	0.09	0.385	6	0.20	7
8	0.382	5 S	0.17	0.357	3 S	0.09	0.373	7	0.23	8
9	0.383	5	0.17	0.369	4	0.13	0.361	6 S	0.18	9
10	0.382	5	0.17	0.373	5	0.16	0.349	5	0.16	10
11	0.394	6 S	0.20	0.375	4	0.13	0.383	5	0.17	11
12	0.377	7	0.23	0.370	3	0.10	0.487	6 S	0.25	12
13	0.365	5	0.18	0.380	3	0.09	0.406	2	0.07	13
14	0.364	6	0.19	0.365	4	0.12	0.352	3	0.09	14
15	0.403	9 S	0.31	0.359	4	0.11	0.340	2	0.06	15
16	0.389	8	0.26	0.343	3 S	0.09	0.337	2 S	0.06	16
17	0.376	7	0.23	0.409	3	0.11	0.384	6	0.21	17
18	0.368	7 S	0.22	0.384	3	0.10	0.359	5	0.18	18
19	0.368	7	0.22	0.408	3	0.11	0.347	10 S	0.30	19
20	0.378	7	0.23	0.409	3	0.11	0.340	4	0.12	20
21	0.384	6	0.19	0.390	4	0.13	0.338	4	0.12	21
22	0.354	7 S	0.21	0.382	7 S	0.23	0.333	6	0.17	22
23	0.344	7	0.21	0.423	2	0.07	0.345	7 S	0.21	23
24	0.337	5	0.17	0.385	3	0.10	0.391	11	0.37	24
25	0.338	13 S	0.38	0.484	3	0.13	0.495	17	0.73	25
26	0.344	5	0.15	0.534	3 S	0.14	0.593	19 S	0.97	26
27	0.378	6	0.20	0.453	2	0.08	0.541	9	0.42	27
28	0.398	10	0.34	0.438	3	0.11	0.430	7	0.26	28
29	0.816	22 S	1.55	0.408	4 S	0.14	0.384	7	0.23	29
30	0.711	11	0.68	0.376	3	0.10	0.378	7 S	0.23	30
31	0.520	4	0.18	0.356	4	0.12				31
TOTAL	12.760		8.89	12.315		3.70	11.452		8.51	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.418	10	0.38	0.308	3	0.08	0.443 A	2	0.08	1
2	0.380	7	0.23	0.313	2	0.05	0.406 A	2 S	0.07	2
3	0.359	4 S	0.12	0.318	2	0.05	0.428 A	3	0.11	3
4	0.366	3	0.09	0.319	1 S	0.03	0.770 A	34	2.38	4
5	0.347	3	0.09	0.308 A	1	0.03	0.567	7 S	0.34	5
6	0.364	2	0.06	0.304 A	2	0.05	0.491	4	0.17	6
7	0.342	3 S	0.06	0.304 E	18 S	0.42	0.484	2	0.08	7
8	0.346	3	0.09	0.306 E	2	0.05	0.433	2	0.07	8
9	0.347	3	0.06	0.304 E	2	0.05	0.434	3 S	0.07	9
10	0.362	2 S	0.06	0.302 E	2	0.05	0.463	2	0.08	10
11	0.358	2	0.06	0.300 E	2 S	0.05	0.452	1	0.04	11
12	0.340	1	0.03	0.298 E	2	0.05	0.449	1 S	0.04	12
13	0.325	3	0.06	0.295 A	3	0.06	0.458	1	0.04	13
14	0.336	2 S	0.06	0.310 E	3 S	0.08	0.428	1	0.04	14
15	0.412	2	0.07	0.298 E	3	0.08	0.432	1	0.04	15
16	0.380	2	0.06	0.305 E	3	0.08	0.430	1 S	0.04	16
17	0.350	2 S	0.06	0.300 E	2	0.05	0.404	1	0.03	17
18	0.363	2	0.06	0.298 E	2 S	0.05	0.413	1	0.04	18
19	0.353	2	0.06	0.294 E	2	0.05	0.403	3 S	0.07	19
20	0.351	2	0.06	0.310 E	2	0.05	0.410	1	0.04	20
21	0.329	2 S	0.06	0.360 E	8 S	0.25	0.409	1	0.04	21
22	0.340	1	0.03	0.680 E	7	0.41	0.394	1	0.03	22
23	0.344	2	0.06	0.550 E	3	0.14	0.397	1 S	0.03	23
24	0.348	6 S	0.18	0.500 E	7	0.30	0.388	1	0.03	24
25	0.349	7	0.21	0.750 E	12 S	0.78	0.390	1	0.03	25
26	0.340	7	0.21	0.689 A	4	0.23	0.837	2 S	0.11	26
27	0.328	7	0.20	0.570 E	3	0.15	0.508	1	0.04	27
28	0.321	7 S	0.19	0.600 E	2 S	0.14	0.449	1	0.04	28
29	0.323	5	0.14	0.580 E	3	0.15	0.414	1	0.04	29
30	0.311	4	0.11	0.470 E	3	0.12	0.415	2 S	0.07	30
31	0.320	12 S	0.33				0.410	2	0.07	31
TOTAL	10.613		3.92	12.006		6.15	13.977		4.28	TOTAL

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1988

DATE	TIME	WATER TEMP (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .003	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 02	14:10	1.0	0.819	10LB	DH48	67															
JAN 07	13:20	1.5	0.570	10LB	DH48	3															
JAN 10	14:30	1.0	0.439	10LB	DH48	3															
JAN 17	15:00	1.0	0.384	10LB	DH48	3	143														
JAN 20	11:10	1.0	2.86	10LB	DH48	383															
JAN 20	16:00	1.0	4.82	10LB	DH48	126															
JAN 21	08:00	1.0	4.15	10LB	DH48	306															
JAN 21	15:00	1.5	2.65	10LB	DH48	86															
JAN 23	09:45	1.0	1.10	10LB	DH48	104															
JAN 26	16:40	1.5	0.570	10LB	DH48	3															
JAN 27	14:00	2.0	1.16	10LB	DH48	82															
JAN 28	09:30	2.0	2.74	10LB	DH48	187															
JAN 28	15:00	2.0	1.80	10LB	DH48	121															
JAN 30	15:00	2.0	0.819	10LB	DH48	10	112														
JAN 31	09:45	2.0	0.570	10LB	DH48	9															
FEB 04	14:20	2.0	0.546	10LB	DH48	2															
FEB 07	16:25	1.0	0.542	10LB	DH48	2															
FEB 11	11:30	1.0	0.498	10LB	DH48	8															
FEB 14	13:30	2.0	0.576	10LB	DH48	7															
FEB 18	15:00	2.0	0.568	10LB	DH48	2															
FEB 21	13:55	2.0	0.557	10LB	DH48	4															
FEB 25	10:50	2.0	0.565	10LB	DH48	5															
FEB 28	16:20	2.0	0.560	10LB	DH48	3	131														
MAR 04	11:00	3.0	0.464	10LB	DH48	3															
MAR 07	10:20	2.0	0.494	10LB	DH48	2															
MAR 11	09:55	2.0	0.501	10LB	DH48	1															
MAR 14	14:50	2.0	0.454	10LB	DH48	1															
MAR 18	13:20	3.0	0.480	10LB	DH48	9															
MAR 20	11:00	3.0	2.28	10LB	DH48	59															
MAR 20	18:00	3.0	1.74	10LB	DH48	44															
MAR 21	14:00	3.0	1.30	10LB	DH48	58															
MAR 23	13:25	3.0	1.10	10LB	DH48	10															
MAR 26	15:00	4.0	0.565	10LB	DH48	3															
MAR 27	18:00	4.0	3.48	10LB	DH48	90	70														
MAR 28	10:00	4.0	2.74	10LB	DH48	80															
MAR 28	17:00	4.0	2.98	10LB	DH48	74															
MAR 29	13:00	4.0	1.74	10LB	DH48	16															
MAR 30	16:30	5.0	2.26	10LB	DH48	25															
MAR 31	09:30	5.0	3.46	10LB	DH48	28															
MAR 31	14:00	5.0	4.83	10LB	DH48	45															
MAR 31	18:50	5.0	5.16	10LB	DH48	377															
APR 01	11:00	5.0	2.26	10LB	DH48	210															
APR 02	13:00	5.0	1.84	10LB	DH48	30															
APR 05	14:00	4.0	1.22	10LB	DH48	16	63														
APR 06	16:00	4.0	1.39	10LB	DH48	4															
APR 10	13:00	9.0	2.28	10LB	DH48	65															
APR 10	18:00	9.0	2.36	10LB	DH48	97															
APR 11	11:10	9.0	1.26	10LB	DH48	32															
APR 16	17:00	5.0	2.26	10LB	DH48	99															
APR 17	11:30	4.5	2.50	10LB	DH48	84															
APR 19	15:20	5.0	1.33	10LB	DH48	5															
APR 22	16:00	5.0	1.29	10LB	DH48	39															
APR 25	14:10	6.0	1.27	10LB	DH48	3	104														
APR 28	14:20	5.0	1.04	10LB	DH48	170															
MAY 02	11:00	5.0	0.929	10LB	DH48	76															
MAY 06	11:30	5.0	0.798	10LB	DH48	1															
MAY 09	09:50	9.0	0.770	10LB	DH48	3															
MAY 13	10:30	9.0	0.744	10LB	DH48	3															
MAY 16	16:00	12.0	0.854	10LB	DH48	3															
MAY 20	16:00	14.0	0.839	10LB	DH48	3															
MAY 23	16:00	14.0	0.570	10LB	DH48	10															
MAY 27	08:50	14.0	0.560	10LB	DH48	9															
MAY 30	11:30	14.0	0.522	10LB	DH48	3	121														
JUN 03	15:00	14.0	0.522	10LB	DH48	9															
JUN 08	16:30	16.0	0.486	10LB	DH48	6															
JUN 08	17:00	16.0	1.38	10LB	DH48	180															
JUN 10	11:00	16.0	0.869	10LB	DH48	18															
JUN 13	16:00	17.0	0.452	10LB	DH48	5															
JUN 17	11:50	17.0	0.439	10LB	DH48	4															
JUN 20	17:30	17.0	0.406	10LB	DH48	5															
JUN 24	10:45	17.0	0.384	10LB	DH48	5															
JUN 27	14:10	16.0	0.382	10LB	DH48	7															
JUN 29	11:30	16.0	0.452	10LB	DH48	52															
JUL 01	15:10	16.0	0.384	10LB	DH48	9															
JUL 04	13:00	16.0	0.353	10LB	DH48	7															
JUL 08	13:30	17.0	0.318	10LB	DH48	5															
JUL 11	14:10	18.0	0.340	10LB	DH48	7															
JUL 15	11:45	18.0	0.318	10LB	DH48	9															
JUL 18	15:00	17.0	0.353	10LB	DH48	7															
JUL 22	14:10	17.0	0.340	10LB	DH48	6															
JUL 25	13:30	17.0	0.327	10LB	DH48	127															
JUL 29	11:30	17.0	0.340	10LB	DH48	9															
AUG 01	16:10	17.0	0.429	10LB	DH48	9	132														
AUG 05	15:50	18.0	0.388	10LB	DH48	3															
AUG 08	11:20	18.0	0.340	10LB	DH48	3															
AUG 16	13:00	18.0	0.382	10LB	DH48	3															
AUG 22	16:00	17.0	0.353	10LB	DH48	23															
AUG 26	13:30	15.0	0.544	10LB	DH48	3															
AUG 29	14:00	15.0	0.340	10LB	DH48	4															
SEP 02	13:00	14.0	0.318	10LB	DH48	3															
SEP 05	13:30	15.0	0.338	10LB	DH48	3	80														
SEP 08	11:10	14.0	0.363	10LB	DH48	9															
SEP 12	14:20	15.0	0.340	10LB	DH48	3															
SEP 16	11:30	14.0	0.327	10LB	DH48	2															
SEP 19	11:00	14.0	0.331	10LB	DH48	16															
SEP 23	13:00	14.0	0.644	10LB	DH48	7															
SEP 26	16:00	13.0	0.670	10LB	DH48	13															
SEP 30	11:00	13.0	0.384	10LB	DH48	4															
OCT 03	10:30	13.0	0.382	10LB	DH48	3															
OCT 07	15:45	12.0	0.318	10LB	DH48	2															
OCT 10	10:30	12.0	0.298	10LB	DH48	1															
OCT 14	14:25	11.0	0.331	10LB	DH48	3															
OCT 17	15:00	11.0	0.340	10LB	DH48	1															

NOTE : SINGLE VERTICAL LOCATED AT 10LB (ONE QUARTER THE DISTANCE FROM THE LEFT BANK) FOR 1988

CONTINUED

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1988

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. DISSOLVED CONCENT. (mg/L)	SOLIDS (mg/L)	PERCENT FINER THAN (INDICATED SIZE, IN MILLIMETRES) .002	.004	.008	.016	.031	.063	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
OCT 21	13:25	10.0	0.310	10LB	DH48	1															
OCT 24	11:30	8.0	0.231	10LB	DH48	9															
OCT 28	09:15	8.0	0.340	10LB	DH48	10															
OCT 31	10:40	8.0	0.327	10LB	DH48	188															
NOV 04	14:00	7.0	0.310	10LB	DH48	1															
NOV 07	13:25	7.0	0.337	10LB	DH48	147															
NOV 11	15:20	6.0	0.318	10LB	DH48	1															
NOV 14	14:10	6.0	0.288	10LB	DH48	3															
NOV 18	11:30	6.0	0.283	10LB	DH48	2															
NOV 21	14:30	5.0	0.383	10LB	DH48	7															
NOV 25	13:10	4.0	0.570	10LB	DH48	8	141														
NOV 28	11:30	3.0	0.364	10LB	DH48	1															
DEC 02	11:00	3.0	0.415	10LB	DH48	3															
DEC 05	14:00	3.0	0.458	10LB	DH48	6															
DEC 09	10:15	3.0	0.488	10LB	DH48	3															
DEC 12	11:10	3.0	0.439	10LB	DH48	1															
DEC 16	14:50	1.0	0.384	10LB	DH48	1															
DEC 19	12:30	1.0	0.415	10LB	DH48	1															
DEC 23	11:20	1.0	0.393	10LB	DH48	1															
DEC 26	10:45	1.0	0.388	10LB	DH48	3															
DEC 30	12:00	1.0	0.384	10LB	DH48	2															

NOTE : SINGLE VERTICAL LOCATED AT 10LB (ONE QUARTER THE DISTANCE FROM THE LEFT BANK) FOR 1988

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY - JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1979	------EEEEEE	MANUAL	481	DEC 17	9	DEC 11 *	130	DEC 17	887 *	---	---	---
1980	EEEEEEEEEEEE	MANUAL	333	APR 05	1	FEB 12	180	APR 05 *	884	1.84	1.84	---
1981	EEEEEEEEEEEE	MANUAL	336	FEB 03	1	SEP 18	80.5	FEB 12	885	1.83	1.88	8.3
1982	EEEEEEEEEEEE	MANUAL	88	APR 29	1	MAY 26	22.6	APR 29	302	0.83	1.40	21.0
1983	EEEEEEEEEEEE	MANUAL	93	MAR 21	2	JAN 05	17.7	MAR 21	348	0.99	1.39	18.2
1984	EEEEEEEEEEEE	MANUAL	377	AUG 14	1	MAR 09	108	FEB 05	907	1.39	1.31	14.0
1985	EEEEEEEEEEEE	MANUAL	939	APR 08 *	1	JAN 03	25.3	APR 17	287	0.73	1.41	16.7
1986	EEEEEEEEEEEE	MANUAL	383	JAN 30	1	MAR 11	65.6	MAR 31	883	1.82	1.39	13.4

MANUAL - MANUAL SAMPLING

E - COMPLETE MONTH

* - EXTREME FOR PERIOD OF RECORD

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

SUSPENDED SEDIMENT FOR 1985

LOCATION: LAT 46 20 49 N LONG 63 27 55 W
DRAINAGE AREA: 12.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 721 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.100	4	0.03	0.145 B	5	0.08	0.088	4	0.03	1
2	0.091	4 S	0.03	0.139 B	5	0.08	0.088	4	0.03	2
3	0.090 B	4	0.03	0.132	5	0.08	0.083	4	0.03	3
4	0.123 B	5	0.06	0.133 B	5	0.07	0.088	4	0.03	4
5	0.133 B	6	0.06	0.139	5	0.07	0.080	4	0.03	5
6	0.118 B	5	0.05	0.137 B	4	0.06	0.083	4	0.03	6
7	0.116 B	4	0.04	0.135 B	5	0.06	0.082 B	4	0.03	7
8	0.114 B	5	0.05	0.134	5	0.06	0.090 B	5	0.04	8
9	0.112 B	7 S	0.07	0.130	5 S	0.06	0.088 B	4	0.03	9
10	0.109 B	7	0.07	0.127	5	0.05	0.088 B	3	0.02	10
11	0.107 B	7	0.06	0.125	5	0.06	0.087 B	4	0.03	11
12	0.104 B	10	0.09	0.117	4	0.04	0.086 B	3	0.02	12
13	0.102	13 S	0.11	0.103	4	0.04	0.085 B	3	0.03	13
14	0.102 B	17	0.18	0.104 B	11 S	0.10	0.085	3	0.02	14
15	0.101 B	17	0.15	0.105	5	0.05	0.089	2	0.02	15
16	0.098 B	12	0.10	0.107	4	0.04	0.088	2	0.02	16
17	0.094 B	10	0.08	0.104 B	4	0.04	0.078	2	0.01	17
18	0.107 B	9	0.08	0.102 B	3	0.03	0.077	1	0.01	18
19	0.113	8 S	0.08	0.098 B	4	0.03	0.068	1 S	0.01	19
20	3.70	78 S	24.0	0.096	4	0.03	0.890 B	78 S	4.85	20
21	2.20	66 S	13.5	0.093	4	0.03	1.20 B	126	12.4	21
22	0.302	14	0.37	0.101	4	0.03	0.800 B	33	2.21	22
23	0.290 B	38 S	0.93	0.108	4	0.04	0.252	3	0.07	23
24	0.233 B	32	0.64	0.112	4	0.04	0.186	2	0.03	24
25	0.211 B	30	0.56	0.103	4 S	0.04	0.192	2 S	0.03	25
26	0.168	16	0.23	0.091	4	0.03	1.80	50	8.91	26
27	3.00	200 S	51.6	0.085	4	0.03	4.78	111 S	45.6	27
28	1.80	110 S	19.0	0.086	4	0.03	0.788	11	0.78	28
29	0.309	48	1.20				0.482	8 S	0.31	29
30	0.178	7	0.11				1.75	1 720 S	260	30
31	0.160	8	0.08				3.10	340 S	91.1	31
TOTAL	16.749		113.24	3.100		1.35	17.400		424.52	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.01	126 S	11.0	0.215	4	0.07	0.170	2	0.03	1
2	1.28	93	9.88	0.222	7 S	0.13	0.170	3 S	0.04	2
3	0.794	16 S	1.17	0.213	7	0.13	0.156	2	0.03	3
4	0.667	15	0.84	0.177	5	0.08	0.165	2	0.03	4
5	0.643	10 S	0.67	0.174	4	0.06	0.172	2 S	0.03	5
6	0.613	9	0.48	0.172	3 S	0.04	0.160	2	0.03	6
7	0.823	6	0.39	0.176	3	0.05	0.167	2 S	0.03	7
8	0.613	7	0.31	0.171	3	0.04	0.158	2	0.03	8
9	0.726	177 S	11.3	0.171	3	0.04	0.161	3	0.05	9
10	1.85	498 S	79.6	0.165	3	0.04	0.146	2	0.03	10
11	0.584	27 S	1.36	0.158	3	0.04	0.161	2	0.03	11
12	0.940	63 S	3.48	0.144	4	0.05	0.135	3	0.03	12
13	0.660	14 S	0.93	0.143	3	0.04	0.126	3	0.03	13
14	0.383	17	0.83	0.154	3	0.04	0.139	3	0.04	14
15	0.292	14	0.36	0.149	3	0.04	0.141	2	0.02	15
16	0.870	140 S	8.45	0.163	3	0.04	0.137	3	0.04	16
17	2.18	173 S	32.9	0.163	3	0.03	0.136	2	0.02	17
18	0.367	13 S	0.41	0.174	2 S	0.03	0.133	3	0.03	18
19	0.312	9	0.24	0.170	3	0.05	0.137	2	0.02	19
20	0.270	9	0.21	0.170	3	0.04	0.139	2	0.02	20
21	0.248	9	0.19	0.165	3	0.05	0.128	3 S	0.03	21
22	0.248	7 S	0.15	0.157	3	0.05	0.127	3	0.03	22
23	0.290	20 S	0.43	0.157	3	0.05	0.117	3	0.03	23
24	0.338	34 S	0.78	0.215	4 S	0.15	0.108	3	0.03	24
25	0.284	5	0.12	0.170	3	0.05	0.104	3 S	0.03	25
26	0.278	3	0.07	0.148	3	0.04	0.093	3	0.02	26
27	0.267	3	0.07	0.172	4	0.06	0.105	3	0.03	27
28	0.248	3	0.06	0.164	3	0.04	0.094	3 S	0.02	28
29	0.228	3 S	0.06	0.135	3	0.03	0.110	3	0.03	29
30	0.228	4	0.08	0.148	3	0.04	0.114	4	0.04	30
31				0.176	2 S	0.03				31
TOTAL	17.988		187.80	5.338		1.87	4.140		0.90	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

SUSPENDED SEDIMENT FOR 1986

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.108	4	0.04	0.115	15 S	0.15	0.085	2	0.01	1
2	0.117	3	0.03	0.114	7	0.07	0.087	1	0.01	2
3	0.104	3	0.03	0.106	5	0.05	0.085	1	0.01	3
4	0.101	3	0.03	0.101	5	0.07	0.080	1 S	0.01	4
5	0.102	4 S	0.04	0.133	5	0.05	0.084	0	0	5
6	0.092	4	0.03	0.117	4	0.04	0.089	1	0.01	6
7	0.105	4	0.04	0.108	3	0.03	0.100	1	0.01	7
8	0.115	4	0.04	0.113	2	0.02	0.102	2	0.02	8
9	0.121	4	0.04	0.115	3	0.03	0.090	3	0.02	9
10	0.113	4	0.04	0.104	2	0.02	0.089	2 S	0.02	10
11	0.111	4	0.04	0.105	2	0.02	0.100	2	0.02	11
12	0.120	4	0.04	0.105	2	0.02	0.108	5 S	0.05	12
13	0.112	4 S	0.04	0.094	2	0.02	0.105	1	0.01	13
14	0.098	4	0.03	0.099	2	0.02	0.093	1	0.01	14
15	0.110	5 S	0.05	0.102	2 S	0.02	0.092	1 S	0.01	15
16	0.110	5	0.05	0.120	2 S	0.02	0.090	1	0.01	16
17	0.107	3	0.03	0.124	2	0.02	0.088	1	0.01	17
18	0.104	3	0.03	0.118	2	0.02	0.075	1	0.01	18
19	0.120	4	0.04	0.108	2	0.02	0.081	1	0.01	19
20	0.107	4	0.04	0.113	2	0.02	0.084	1	0.01	20
21	0.105	3 S	0.03	0.112	2	0.02	0.087	1 S	0.01	21
22	0.132	3	0.03	0.104	3	0.03	0.086	2	0.01	22
23	0.111	2	0.02	0.104	3	0.03	0.082	1	0.01	23
24	0.098	2	0.02	0.108	3	0.03	0.038	4 S	0.03	24
25	0.084	2	0.02	0.103	3	0.03	0.105	7 S	0.08	25
26	0.101	2	0.02	0.100	2	0.02	0.099	3	0.03	26
27	0.101	3	0.03	0.100	2	0.02	0.096	2	0.02	27
28	0.137	34	0.40	0.091	2	0.02	0.093	2	0.02	28
29	0.133	27 S	0.31	0.088	2	0.02	0.078	2	0.01	29
30	0.108	12	0.11	0.092	2	0.02	0.079	2	0.01	30
31	0.102	242 S	4.01	0.084	2	0.02				31
TOTAL	3.482		5.76	3.380		0.89	2.707		0.48	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.089	1 S	0.01	0.075	2	0.01	0.126	3	0.03	1
2	0.095	1	0.01	0.083	6 S	0.04	0.122	9	0.09	2
3	0.095	2	0.02	0.074	5	0.03	0.148	12	0.18	3
4	0.085	2	0.01	0.074	3	0.02	0.228	6	0.13	4
5	0.089	1	0.01	0.088	3	0.02	0.151	6	0.08	5
6	0.086	1	0.01	0.071	3	0.02	0.144	5	0.06	6
7	0.082	1	0.01	0.081	3	0.02	0.140	25	0.30	7
8	0.081	1	0.01	0.088	3	0.02	0.138 B	22	0.26	8
9	0.081	1	0.01	0.089	3	0.02	0.136 B	5	0.07	9
10	0.092	1	0.01	0.080	3	0.02	0.145	4	0.06	10
11	0.080	2	0.01	0.077	3	0.02	0.126	5	0.06	11
12	0.081	2 S	0.01	0.088	3	0.03	0.128	4	0.04	12
13	0.081	1	0.01	0.083	4	0.03	0.124	3	0.03	13
14	0.078	1	0.01	0.078	4	0.03	0.116 B	5 B	0.06	14
15	0.091	2	0.02	0.089	5 S	0.04	0.111	3	0.03	15
16	0.083	2	0.01	0.083	5	0.04	0.122	4	0.04	16
17	0.088	2	0.01	0.100	5	0.04	0.120 B	3	0.03	17
18	0.092	3 S	0.02	0.103	5	0.04	0.115 B	3	0.03	18
19	0.088	2	0.01	0.100	4	0.03	0.118	3	0.03	19
20	0.087	3	0.02	0.087	5	0.04	0.136	4	0.05	20
21	0.083	2	0.02	0.096	13	0.11	0.133	3	0.03	21
22	0.083	2	0.02	0.138	10 S	0.12	0.114	3 S	0.03	22
23	0.108	3	0.02	0.101	7	0.06	0.135	3	0.03	23
24	0.080	3	0.02	0.120	15	0.16	0.140	4	0.05	24
25	0.075	2	0.01	0.123	4 S	0.04	0.124	9	0.10	25
26	0.078	1	0.01	0.108	4	0.04	0.185	33 S	0.49	26
27	0.078	1	0.01	0.160	12 S	0.17	0.107	6	0.06	27
28	0.078	2	0.01	0.126	5	0.05	0.104	4	0.04	28
29	0.087	2	0.02	0.118	5	0.05	0.104	4	0.04	29
30	0.074	2	0.01	0.122	4	0.04	0.088	4	0.03	30
31	0.077	2	0.01				0.108	3	0.03	31
TOTAL	2.644		0.40	2.801		1.39	4.052		3.67	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 02	14:00	0.5	0.087		1ORB	DH48	4															
JAN 09	10:50	0.0	0.112	B	1ORB	DH48	7															
JAN 13	10:25	5.0	0.102		1ORB	DH48	12															
JAN 19	14:55	4.0	0.113		1ORB	DH48	10															
JAN 20	12:30		3.70	E	1ORB	DH48	160															
JAN 20	16:30	1.5	3.70	E	1ORB	DH48	162															
JAN 21	10:02	5.0	2.30	E	1ORB	DH48	158															
JAN 23	10:11	1.0	0.250	B	1ORB	DH48	36															
JAN 27	09:23	3.0	3.00	E	1ORB	DH48	197															
JAN 27	17:05	4.0	1.80	E	1ORB	DH48	304															
JAN 28	09:20	3.5	1.31		1ORB	DH48	118															
FEB 09	11:50	0.0	0.130	E	1ORB	DH48	5															
FEB 14	16:00	1.0	0.104	B	1ORB	DH48	16															
FEB 25	10:15	1.0	0.092		1ORB	DH48	4															
MAR 19	12:00	1.5	0.088		1ORB	DH48	1															
MAR 20	10:45	1.2	0.414		1ORB	DH48	32															
MAR 25	17:30	1.5	0.170		1ORB	DH48	2															
MAR 27	10:25	1.1	4.75	E	1ORB	DH48	118															
MAR 29	17:50	1.5	0.245		1ORB	DH48	6															
MAR 30	17:30	1.2	5.00	E	1ORB	DH48	6890															
MAR 31	13:00	1.2	2.30	E	1ORB	DH48	588															
MAR 31	16:00	1.2	2.00	E	1ORB	DH48	852															
APR 01	15:10	1.5	1.50		1ORB	DH48	126															
APR 03	09:10	1.3	0.276		1ORB	DH48	12															
APR 05	11:13	1.4	0.220		1ORB	DH48	4															
APR 08	17:50	1.4	0.682		1ORB	DH48	414															
APR 10	09:07	1.2	2.20		1ORB	DH48	1220															
APR 10	12:10	2.0	3.70	E	1ORB	DH48	924															
APR 10	16:30	4.0	0.785		1ORB	DH48	183															
APR 11	15:50	4.0	0.265		1ORB	DH48	22															
APR 12	13:05	5.0	0.414		1ORB	DH48	59															
APR 12	17:15	5.0	0.733		1ORB	DH48	120															
APR 13	10:05	5.5	0.343		1ORB	DH48	13															
APR 16	14:35	4.5	0.245		1ORB	DH48	15															
APR 17	08:50	2.0	3.80	E	1ORB	DH48	252															
APR 17	13:25	2.5	1.90	E	1ORB	DH48	161															
APR 18	08:15	5.5	0.340		1ORB	DH48	15															
APR 22	17:25	9.5	0.245		1ORB	DH48	7															
APR 23	17:40	5.5	0.340		1ORB	DH48	20															
APR 24	09:01	4.5	0.452		1ORB	DH48	32															
APR 29	11:50	7.4	0.220		1ORB	DH48	3	157														
MAY 02	14:35	8.5	0.232		1ORB	DH48	8															
MAY 08	14:45	9.0	0.195		1ORB	DH48	3															
MAY 16	13:10	13.0	0.170		1ORB	DH48	3															
MAY 24	13:06	9.5	0.232		1ORB	DH48	13															
MAY 31	11:05	8.0	0.158		1ORB	DH48	3															
JUN 02	13:05	8.0	0.170		1ORB	DH48	4															
JUN 02	19:15	7.5	0.170		1ORB	DH48	1															
JUN 05	09:05	8.5	0.147		1ORB	DH48	1															
JUN 07	12:20	10.5	0.147		1ORB	DH48	1															
JUN 21	15:55	14.5	0.127		1ORB	DH48	3															
JUN 25	12:30	14.0	0.108		1ORB	DH48	3															
JUN 26	17:01	12.0	0.127		1ORB	DH48	3															
JUL 05	09:56	9.5	0.108		1ORB	DH48	4															
JUL 13	11:05	11.0	0.117		1ORB	DH48	5															
JUL 15	11:40	9.5	0.147		1ORB	DH48	7															
JUL 21	15:30	12.5	0.100		1ORB	DH48	5															
JUL 29	12:05	11.5	0.147		1ORB	DH48	20															
JUL 31	15:05	12.0	0.340		1ORB	DH48	184															
JUL 31	18:15	12.5	0.414		1ORB	DH48	805															
AUG 01	09:45	10.5	0.117		1ORB	DH48	12	185														
AUG 15	17:00	15.0	0.108		1ORB	DH48	2															
AUG 18	10:20	11.0	0.147		1ORB	DH48	2															
SEP 04	15:15	11.5	0.100		1ORB	DH48	1															
SEP 10	17:20	11.5	0.089		1ORB	DH48	2															
SEP 12	10:05	11.7	0.118		1ORB	DH48	11															
SEP 15	09:10	10.0	0.088		1ORB	DH48	1															
SEP 21	15:05	10.5	0.089		1ORB	DH48	1															
SEP 24	09:00	7.5	0.100		1ORB	DH48	5															
SEP 26	12:15	9.2	0.133		1ORB	DH48	13															
OCT 01	09:00	10.5	0.088		1ORB	DH48	1															
OCT 12	15:30	10.0	0.090		1ORB	DH48	1															
OCT 16	10:30	5.5	0.089		1ORB	DH48	8															
NOV 02	13:00	4.0	0.088		1ORB	DH48	11															
NOV 15	09:25	4.0	0.093		1ORB	DH48	5	191														
NOV 22	10:15	0.5	0.123		1ORB	DH48	9															
NOV 25	10:00	2.5	0.115		1ORB	DH48	3															
NOV 27	09:20	3.5	0.205		1ORB	DH48	15															
DEC 14	12:15	0.0	0.121	B	1ORB	DH48	8															
DEC 22	09:20	0.0	0.125		1ORB	DH48	3															
DEC 26	11:50	2.5	0.230		1ORB	DH48	17															

NOTE : SINGLE VERTICAL LOCATED AT 1ORB (ONE QUARTER THE DISTANCE FROM THE RIGHT BANK) FOR 1986

DISCHARGE SYMBOL(S): B - ICE CONDITIONS E - ESTIMATED

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY - JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1971	------FCCCCC	MANUAL	228	AUG 18	1 JUL 27 *		18.9	AUG 18	28.3	---	---	---
1972	CCCCCCCCCCCC	MANUAL	456	MAY 04	2 SEP 14		234	MAY 04	931 *	2.54	2.54	---
1973	CCCCCCCCCCCC	MANUAL	193	APR 05	2 NOV 20		85.3	MAR 16	370	0.76	1.84	54.9
1974	CCCCCCCCCCCC	DUAL	783	NOV 28	1 MAY 07		44.3	NOV 28	188	0.51	1.26	50.9
1975	CCCCCCCCCCCC	MANUAL	45	MAR 20	2 JAN 03		4.32	APR 20	56.8	0.15	0.89	53.6
1976	CCCCCCCCCCCC	MANUAL	51	MAR 21	2 MAR 15		30.0	MAR 21	84.5	0.23	0.84	52.2
1977	CCCCCCCCCCCC	MANUAL	84	APR 01	1 FEB 09		20.6	MAR 31	134	0.37	0.78	48.2
1978	CCCCCCCCCCCC	MANUAL	54	APR 21	1 FEB 28		42.7	JAN 27	188	0.46	0.72	43.4
1979	CCCCCCCCCCCC	MANUAL	705	APR 10	1 JAN 25		99.7	MAR 15	772	2.11	0.89	36.2
1980	CCCCCCCCCCCC	MANUAL	320	APR 05	1 JAN 21		57.3	APR 05	189	0.42	0.84	34.4
1981	CCCCCCCCCCCC	MANUAL	240	OCT 28	1 MAR 19		71.7	FEB 12	233	0.64	0.82	31.6
1982	CCCCCCCCCCCC	MANUAL	84	APR 28	1 AUG 25		4.95	APR 28	72.8	0.20	0.76	31.7
1983	CCCCCCCCCCCC	MANUAL	131	DEC 14	1 APR 01		22.2	MAR 20	83.5	0.23	0.72	31.1
1984	CCCCCCCCCCCC	MANUAL	3 010	MAR 17	1 JAN 05		38.4	MAR 17	115	0.31	0.89	30.2
1985	CCCCCCCCCCCC	MANUAL	388	MAY 22	1 FEB 18		16.6	APR 07	83.8	0.23	0.85	30.1
1986	CCCCCCCCCCCC	MANUAL	6 890	MAR 30 *	1 MAR 19		280	MAR 30 *	721	1.98	0.74	27.4

DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

SUSPENDED SEDIMENT FOR 1988

LOCATION: LAT 46 23 35 N LONG 63 39 35 W
DRAINAGE AREA: 45.4 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 2 850 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.302	3	0.08	0.887	5	0.29	0.284	3	0.08	1
2	0.284	3 S	0.07	0.610	5	0.26	0.287	3	0.07	2
3	0.282	3	0.07	0.571	5 S	0.25	0.271	3	0.07	3
4	0.286	3	0.07	0.530 B	3	0.14	0.254	2	0.04	4
5	0.411	3	0.11	0.510 B	3	0.13	0.248	1 S	0.02	5
6	0.428	4	0.15	0.471	3	0.12	0.254	2	0.04	6
7	0.363	4	0.13	0.470 B	3	0.12	0.327	4	0.08	7
8	0.330 B	3 S	0.09	0.485 B	8 S	0.32	0.300	3	0.06	8
9	0.295 B	3	0.08	0.480 B	7	0.28	0.284	4	0.09	9
10	0.275 B	2	0.05	0.453	6	0.23	0.239	5	0.10	10
11	0.245	3	0.08	0.450	7	0.27	0.279	7	0.17	11
12	0.267	4	0.09	0.445	6 S	0.23	0.248	8	0.17	12
13	0.259	4 S	0.08	0.435	5	0.19	0.243	8	0.17	13
14	0.250 B	6	0.13	0.430	5	0.19	0.228	8	0.16	14
15	0.244 B	5	0.11	0.410	4	0.14	0.231	11	0.22	15
16	0.238 B	5	0.10	0.387	4	0.14	0.220	10	0.18	16
17	0.233 B	8	0.16	0.391	4	0.14	0.211	12 S	0.22	17
18	0.230 B	7	0.14	0.387	4 S	0.13	0.189	8	0.14	18
19	0.226 B	7	0.14	0.384	5	0.16	0.269	15	0.35	19
20	14.8	133 S	170	0.380	2	0.06	5.48	161 S	71.5	20
21	10.3	77	68.5	0.387	1 S	0.03	8.05	20 S	10.5	21
22	2.20	8	1.71	0.354 B	2	0.06	2.41	5	1.04	22
23	2.07	37	6.62	0.348 B	2	0.06	1.15	7	0.70	23
24	1.14	11	1.06	0.336 B	2 S	0.06	0.868	13 S	1.09	24
25	0.823	11	0.78	0.332 B	2	0.06	0.779	26	1.75	25
26	0.844	11	0.81	0.323 B	3	0.06	5.88	83 S	32.4	26
27	9.26	354 S	283	0.315 B	3	0.06	17.8	180 S	277	27
28	8.00	430 S	334	0.308	3	0.06	2.88	21	5.23	28
29	1.81	23	3.20				1.28	31	3.43	29
30	0.830	13	1.04				7.00	476	288	30
31	0.775	5	0.33				11.4	880 S	870	31
TOTAL	58.981		872.78	11.939		4.30	87.823		1 385.10	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	3.16	318	86.8	0.904	4	0.31	0.473	3	0.12	1
2	2.84	323	79.3	0.882	4	0.30	0.482	4 S	0.17	2
3	1.82	158	22.3	0.838	4	0.29	0.472	4	0.18	3
4	1.20	85	8.74	0.785	4	0.27	0.459	4	0.16	4
5	0.949	45	3.69	0.773	2	0.13	0.453	3	0.12	5
6	0.795	28	1.92	0.782	3	0.19	0.456	3	0.12	6
7	0.758	13 S	0.85	0.704	3	0.18	0.434	2	0.07	7
8	0.730	12	0.76	0.674	2 S	0.12	0.448	4	0.15	8
9	1.48	238	30.4	0.650	2	0.11	0.494	4	0.17	9
10	4.26	530 S	195	0.645	2	0.11	0.445	2	0.08	10
11	1.31	48	5.43	0.631	1	0.05	0.427	3	0.11	11
12	1.60	184	25.4	0.602	2	0.10	0.417	3	0.11	12
13	1.22	29	3.06	0.597	1 S	0.05	0.411	2	0.07	13
14	1.10	44	4.18	0.587	1	0.05	0.409	2	0.07	14
15	1.03	36	3.36	0.570	1	0.05	0.416	3	0.11	15
16	2.48	102	21.7	0.568	1	0.05	0.403	2	0.07	16
17	5.86	270	137	0.550	2	0.10	0.404	2	0.07	17
18	1.41	38	4.63	0.555	2	0.10	0.394	2	0.07	18
19	1.18	13	1.33	0.546	2	0.09	0.388	2	0.07	19
20	1.11	13	1.25	0.541	2	0.09	0.380	2	0.07	20
21	1.07	13 S	1.20	0.534	3	0.14	0.377	2	0.07	21
22	1.09	10	0.94	0.527	3	0.14	0.380	2	0.07	22
23	1.25	22	2.38	0.520	2	0.09	0.378	2	0.08	23
24	1.74	48	7.22	0.718	8	0.50	0.378	2	0.07	24
25	1.23	14	1.48	0.814	3 S	0.18	0.378	2 S	0.07	25
26	1.15	8	0.78	0.641	3 S	0.14	0.377	3	0.07	26
27	1.09	4	0.38	0.608	1 S	0.04	0.388	3	0.10	27
28	1.03	4	0.38	0.601	2	0.09	0.388	2	0.07	28
29	0.893	4 S	0.34	0.487	2	0.08	0.385	2	0.07	29
30	0.849	4	0.33	0.485	2	0.08	0.388	3 S	0.10	30
31				0.485	2	0.08				31
TOTAL	47.884		650.55	19.287		4.30	13.489		2.89	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

SUSPENDED SEDIMENT FOR 1985

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.376	3	0.10	0.869	32 S	1.85	0.345	4	0.12	1
2	0.361	3	0.09	0.441	7	0.27	0.349	4	0.12	2
3	0.366	3	0.10	0.414	8	0.21	0.344	4	0.12	3
4	0.373	4	0.13	0.844	20	1.11	0.340	4	0.12	4
5	0.369	4	0.13	0.434	8	0.22	0.334	4	0.12	5
6	0.384	3	0.09	0.380	6	0.20	0.330	4	0.11	6
7	0.365	2	0.06	0.384	5	0.18	0.344	4	0.12	7
8	0.364	3	0.10	0.387	5	0.17	0.330	4	0.11	8
9	0.367	3	0.10	0.380	4	0.13	0.322	4	0.11	9
10	0.365	3	0.09	0.391	4	0.14	0.329	4	0.11	10
11	0.369	3	0.10	0.388	5	0.17	0.350	5	0.16	11
12	0.371	4	0.13	0.389	5	0.17	0.432	8	0.34	12
13	0.365	7 S	0.22	0.383	5 S	0.17	0.373	6	0.19	13
14	0.364	4	0.13	0.370	5	0.16	0.348	5	0.15	14
15	0.368	3	0.10	0.381	5	0.16	0.339	4	0.12	15
16	0.368	3	0.09	0.380	5	0.16	0.330	4	0.11	16
17	0.341	3	0.09	0.397	5	0.17	0.326	5 S	0.14	17
18	0.343	3	0.09	0.381	5	0.16	0.323	5	0.14	18
19	0.337	3	0.09	0.381	5	0.16	0.328	5	0.14	19
20	0.337	3	0.09	0.373	4 S	0.13	0.226	4	0.08	20
21	0.351	3	0.09	0.363	5	0.16	0.148	2	0.03	21
22	0.367	3	0.09	0.348	5	0.15	0.145	2	0.03	22
23	0.364	3	0.09	0.356	5	0.15	0.219	5	0.09	23
24	0.383	3	0.10	0.381	5	0.16	0.324	8	0.22	24
25	0.381	2	0.07	0.385	5 S	0.17	0.439	10 S	0.38	25
26	0.414	3	0.11	0.370	5	0.16	0.383	8	0.20	26
27	0.424	3	0.11	0.369	5	0.16	0.346	4	0.12	27
28	0.502	7	0.30	0.384	10 S	0.33	0.323	4	0.11	28
29	0.692	30 S	1.79	0.368	5	0.16	0.323	4 S	0.11	29
30	0.454	5	0.20	0.351	4	0.13	0.331	5 S	0.14	30
31	0.997	33	2.84	0.348	4	0.12				31
TOTAL	12.579		7.91	13.336		7.84	9.735		4.18	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.286	5	0.13	0.309	3	0.08	0.484	5	0.25	1
2	0.191	3	0.05	0.341	4	0.12	0.448	5	0.19	2
3	0.240	4	0.08	0.337	4	0.12	0.558	5	0.29	3
4	0.317	8 S	0.22	0.314	3	0.08	1.72	35	5.20	4
5	0.327	5	0.14	0.295	4	0.10	0.749	8	0.39	5
6	0.328	4	0.11	0.295	4	0.10	0.605	5	0.26	6
7	0.331	4	0.11	0.304	4	0.11	0.585	6	0.29	7
8	0.332	4	0.11	0.295	4	0.10	0.518	6	0.27	8
9	0.340	4	0.12	0.299	3	0.08	0.538	7	0.33	9
10	0.343	7	0.21	0.308	4	0.11	0.546	7	0.33	10
11	0.325	3	0.08	0.288	3	0.07	0.489	5	0.21	11
12	0.327	3	0.08	0.281	3 S	0.06	0.493	4	0.17	12
13	0.338	4	0.12	0.302	3	0.08	0.483	3	0.13	13
14	0.351	4	0.12	0.281	3	0.07	0.455	3	0.12	14
15	0.349	3	0.09	0.284	3	0.07	0.445	4	0.15	15
16	0.340	4	0.12	0.286	3	0.07	0.430	3	0.11	16
17	0.334	5	0.14	0.291	4	0.10	0.435	3	0.11	17
18	0.366	5	0.18	0.292	3	0.08	0.445	3	0.12	18
19	0.338	5	0.15	0.281	3	0.07	0.405	3	0.10	19
20	0.324	8	0.17	0.247	3	0.05	0.413	3	0.11	20
21	0.325	7 S	0.20	0.309	5	0.13	0.410	2	0.07	21
22	0.340	8	0.24	0.575	13	0.65	0.408	2 S	0.07	22
23	0.332	5	0.14	0.344	5	0.15	0.395	3	0.10	23
24	0.324	4	0.11	0.800	7	0.30	0.401	2	0.07	24
25	0.312	4	0.11	0.778	19 S	1.28	0.384	3	0.10	25
26	0.319	4	0.11	0.443	5	0.19	1.24	35 S	3.75	26
27	0.301	5	0.13	1.02	33	2.91	0.800	6	0.31	27
28	0.300	4	0.10	0.678	15	0.88	0.493	3	0.13	28
29	0.310	3	0.08	0.530	8 S	0.37	0.464	3	0.12	29
30	0.329	4	0.11	0.534	7	0.33	0.436	2	0.08	30
31	0.319	3	0.08				0.426	2	0.07	31
TOTAL	9.838		4.00	11.648		8.93	15.880		14.00	TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1986

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 02	12:00	0.5	0.241	10LB	DH48	3															
JAN 06	11:00	0.5	0.382	10LB	DH48	3	151														
JAN 13	17:00	3.0	0.182	10LB	DH48	5															
JAN 20	11:00	3.0	17.3	10LB	DH48	122															
JAN 20	15:00	3.0	28.2	10LB	DH48	216															
JAN 27	15:25	3.0	15.2	10LB	DH48	589															
JAN 28	08:25	3.0	8.88	10LB	DH48	341															
JAN 28	15:10	3.0	8.11	10LB	DH48	538															
FEB 03	14:50	2.0	0.567	10LB	DH48	3															
FEB 08	11:20	2.0	0.563	10LB	DH48	12															
FEB 12	11:00	3.0	0.448	10LB	DH48	8															
FEB 18	10:30	1.0	0.474	10LB	DH48	6	151														
FEB 21	11:25	2.0	0.343	10LB	DH48	1															
FEB 24	13:00		0.347	10LB	DH48	2															
MAR 05	16:45	5.0	0.283	10LB	DH48	1															
MAR 17	17:00	4.0	0.216	10LB	DH48	39															
MAR 20	10:30	2.5	2.85	10LB	DH48	142															
MAR 21	15:15		5.32	10LB	DH48	9															
MAR 24	15:00	4.0	0.786	10LB	DH48	14															
MAR 26	11:00	3.0	0.783	10LB	DH48	20															
MAR 27	11:00	4.0	0.735	10LB	DH48	195															
MAR 31	10:00	2.5	8.51	10LB	DH48	403	39														
MAR 31	15:00	2.5	22.3	10LB	DH48	918															
APR 07	17:30	6.0	0.761	10LB	DH48	16															
APR 10	14:30	4.0	5.18	10LB	DH48	917															
APR 10	18:00	4.0	5.82	10LB	DH48	520															
APR 21	11:20	7.5	1.04	10LB	DH48	12															
APR 28	18:23	6.0	0.585	10LB	DH48	4	128														
MAY 08	12:00	8.5	0.652	10LB	DH48	2															
MAY 13	18:12	10.0	0.586	10LB	DH48	1															
MAY 25	14:00	10.0	0.624	10LB	DH48	1															
MAY 26	08:45	12.5	0.645	10LB	DH48	5															
MAY 27	08:30	9.0	0.522	10LB	DH48	1															
JUN 02	19:41		0.498	10LB	DH48	5															
JUN 25	13:40	16.0	0.355	10LB	DH48	2															
JUN 30	16:30	15.0	0.371	10LB	DH48	3															
JUL 13	19:13	16.0	0.343	10LB	DH48	10	116														
JUL 28	08:00	12.5	0.667	10LB	DH48	45															
AUG 01	11:10	13.5	0.481	10LB	DH48	31															
AUG 13	19:00	14.5	0.371	10LB	DH48	5															
AUG 20	19:23		0.355	10LB	DH48	5															
AUG 25	08:00	11.0	0.384	10LB	DH48	5															
AUG 28	19:45	11.0	0.368	10LB	DH48	32															
SEP 17	08:15	9.5	0.331	10LB	DH48	5															
SEP 25	15:00	10.5	0.349	10LB	DH48	20															
SEP 29	19:00	11.0	0.327	10LB	DH48	4															
SEP 30	15:30	10.5	0.351	10LB	DH48	5	156														
OCT 04	16:20	12.5	0.343	10LB	DH48	8															
OCT 21	12:30	6.5	0.331	10LB	DH48	5															
NOV 12	13:00	5.0	0.590	10LB	DH48	3															
NOV 25	13:45	2.0	0.677	10LB	DH48	17															
NOV 29	12:00	5.0	0.536	10LB	DH48	8															
DEC 22	09:50	2.0	0.387	10LB	DH48	2															
DEC 26	11:30	2.0	1.89	10LB	DH48	57															

NOTE : SINGLE VERTICAL LOCATED AT 10LB (ONE QUARTER THE DISTANCE FROM THE LEFT BANK) FOR 1986

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY - JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1972	CCCCCCCCCCCC	MANUAL	376	APR 30	1	AUG 28 *	433	MAR 18	3 760	10.3	10.3	---
1973	CCCCCCCCCCCC	MANUAL	336	JAN 01	2	JUN 03	323	FEB 03	1 680	5.16	7.73	33.2
1974	CCCCCCCCCCCC	MANUAL	852	MAR 24	3	MAY 24	279	MAR 24	1 600	4.38	6.81	38.1
1975	CCCCCCCCCCCC	MANUAL	197	APR 20	2	SEP 20	185	APR 20	825	1.71	5.39	33.3
1976	CCCCCCCCCCCC	MANUAL	130	AUG 30	6	MAY 11	121	MAR 21	1 150	3.14	4.84	29.6
1977	CCCCCCCCCCCC	MANUAL	69	OCT 21	3	MAY 16	177	APR 08	1 260	3.46	4.69	26.0
1978	CCCCCCCCCCCC	MANUAL	101	JAN 15	1	MAY 30	136	JAN 27	1 010	2.76	4.42	24.1
1979	CCCCCCCCCCCC	MANUAL	843	APR 10	1	MAY 23	345	MAR 15	4 130 *	11.3	5.26	23.9
1980	CCCCCCCCCCCC	MANUAL	358	MAR 18	2	JUN 03	298	APR 05	1 380	3.78	5.11	22.0
1981	CCCCCCCCCCCC	MANUAL	695	OCT 28	2	APR 21	404	FEB 12	1 810	5.22	5.13	19.7
1982	CCCCCCCCCCCC	MANUAL	287	APR 01	2	NOV 18	144	APR 01	735	2.02	4.84	19.7
1983	CCCCCCCCCCCC	MANUAL	884	APR 05	1	NOV 02	838	MAR 20	1 950	5.34	4.88	17.9
1984	CCCCCCCCCCCC	MANUAL	1 390	MAR 22 *	1	MAY 31	814	MAR 16	2 420	6.61	5.01	16.2
1985	CCCCCCCCCCCC	MANUAL	1 060	MAY 22	1	FEB 25	167	APR 07	388	1.09	4.73	17.0
1986	CCCCCCCCCCCC	MANUAL	918	MAR 31	1	FEB 21	870	MAR 31 *	2 950	8.07	4.88	15.7

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

* - EXTREME FOR PERIOD OF RECORD

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